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June 30, 2006 VIA US MAIL

Mr. Femi Akindele Remediation Project Manager USEPA Region IV Atlanta Federal Center 61 Forsyth Street S.W. Atlanta, GA 30303-8960

RE: INITIAL OPERATION AND PERFORMANCE MEMORANDUM

Reconstructed Main Plant Area Remediation System

Carrier Air Conditioning Superfund Site, 97 South Byhalia Road, Collierville, Tennessee

EPA ID: TND04406222 XDD Project No. 73271

Dear Mr. Akindele:

On behalf of Carrier Air Conditioning and United Technologies Corporation, Xpert Design and Diagnostics, LLC is submitting a hardcopy and a compact disc version of the Initial Operation and Performance Memorandum for the reconstructed Main Plan Area (MPA) remediation system at the Carrier Air Conditioning Superfund Site in Collierville, Tennessee. In accordance with the "Completion Report - Reconstruction of Main Plant Area Remedial System", dated December 16, 2005, the reconstructed MPA remediation system's initial operation and performance results have been included in this memorandum and are being submitted to the United States Environmental Protection Agency (USEPA). This memorandum covers the operational period from the reconstructed MPA remediation system's start-up in December 2005 through the end of March, 2006. This memorandum also presents the activities/plans associated with the long-term operation, maintenance, and monitoring of the reconstructed MPA remediation system.

Subsequent operation and performance results of the reconstructed MPA remediation system and other site activities will be documented in the progress reports to be submitted to the USEPA on an annual basis, in accordance with the "2004 EPA Five-Year Review Report", dated June 27, 2005.

Please contact me if you have any questions regarding this memorandum.

Sincerely,

Bruce L. Cliff, P.E. Sr. Project Manager Xpert Design and Diagnostics, LLC

enclosure

copy: Bryan Kielbania – UTC

Lori Goetz – EnSafe Mark Allen - SAS Jaime Woods - TDEC

INITIAL OPERATION AND PERFORMANCE MEMORANDUM (DECEMBER 2005 THROUGH MARCH 2006)

RECONSTRUCTED MAIN PLANT AREA REMEDIATION SYSTEM

Carrier Air Conditioning Superfund Site Collierville, Tennessee EPA ID: TND04406222

Prepared For:

UNITED TECHNOLOGIES CORPORATION

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JUNE 30, 2006



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1.0 INTRODUCTION

On behalf of Carrier Air Conditioning (Carrier) and United Technologies Corporation (UTC), Xpert Design and Diagnostics, LLC (XDD) has prepared the following memorandum on the initial operation and performance of the reconstructed Main Plant Area (MPA) remediation system at the Carrier Superfund Site located at 97 South Byhalia Road in Collierville, Tennessee (Site).

The operation of the reconstructed MPA remediation system was started in December 2005. The activities associated with the remediation system's fabrication, construction/installation, start-up/shake-down, and flow optimization were detailed in the "Completion Report - Reconstruction of Main Plant Area Remedial System", dated December 16, 2005. In accordance with the Completion Report, the reconstructed MPA remediation system's initial operation and performance results have been included in this memorandum and are being submitted to the United States Environmental Protection Agency (USEPA). This memorandum covers the operational period from the reconstructed MPA remediation system's start-up (December 2005) through the end of March 2006. This memorandum also presents the activities/plans associated with the long-term operation, maintenance, and monitoring (OM&M) of the reconstructed MPA remediation system. Subsequent operation and performance results of the reconstructed MPA remediation system and other site activities will be documented in the progress reports to be submitted to the USEPA on an annual basis in accordance with the "2004 EPA Five-Year Review Report", dated June 27, 2005.

2.0 BACKGROUND

The soil and groundwater at the MPA have been impacted with chlorinated volatile organic compounds (VOCs), primarily trichloroethylene (TCE) and its daughter products cisdichloroethylene (cis-DCE) and vinyl chloride. Previously, a soil vapor extraction (SVE) system was in operation at the MPA. Due to the Carrier plant expansion, the original MPA SVE system was dismantled and the associated vapor extraction wells were abandoned in August 2004. The MPA remediation system has since been reconstructed and activated and consists of a SVE system and a sub-slab ventilation (SSV) system. The reconstructed MPA SVE well layout is presented in Figure 1. The MPA SSV system layout is presented in Figure 2. The MPA geologic information is presented in Figure 3.

3.0 SYSTEM START-UP AND OPERATION

The reconstructed MPA SVE system's initial start-up procedures began on December 1, 2005. The MPA SVE system was fully activated on December 6, 2005 after the initial start-up and flow optimization procedures were completed. At activation, the SVE system was configured to operate on approximately half of the total wells which produced the greatest chlorinated VOC vapor concentrations (a total of 54 SVE wells including: 25 Shallow, 27 Deep, and two Deep Sand wells), in accordance with the "Scope of Work (SOW) – Reconstruction of Main Plant Area Remedial System", dated August 18, 2004. The system has been operating on the same 54

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wells throughout the reporting period. These 54 wells are identified in Figure 1. The SSV activation was performed on December 8, 2005 utilizing the three SSV system legs (Legs A, B, and C). Each of the three SSV system legs have been operational throughout the reporting period.

The chronology of the MPA SVE and SSV systems start-up and operation from December 2005 through March 2006 is presented in Table 1. Both the MPA SVE and the SSV systems operated continuously since activation through April 4, 2006 with the exception of few temporary shut downs pending repairs and/or vapor-phase granular activated carbon (GAC) change-outs, as shown in Table 1.

4.0 DESCRIPTION OF SYSTEM OM&M ACTIVITIES/PLANS

The activities/plans associated with the long-term OM&M of the MPA remediation systems are briefly discussed in the following sections of this memorandum.

4.1 GENERAL OPERATION, MAINTENANCE, AND MONITORING

General OM&M (i.e., manual measurements of vacuum/pressure readings, flow rates, and temperature measurements) is performed to assure the proper operation of the MPA SVE system and to avoid as much as possible any system down-times. Initially, general OM&M routine site-checks were conducted on a weekly basis which were reduced to a semi-monthly basis, then to a monthly basis as necessary. The operational status of the system is also monitored remotely via a telemetry system on a routine basis to assure the system is operating between site inspections.

4.2 COMPLIANCE SAMPLING AND MONITORING

Compliance sampling and monitoring of the MPA SVE system is performed throughout system operation to confirm compliance with the air emission discharge permit (Title V Permit No. 00083-01TV with the Memphis and Shelby County Health Department [M&SCHD] Air Pollution Control District) and the water discharge permit (Permit No. 90-001-A with the Town of Collierville, Public Services Department). Air emissions are periodically sampled during routine site checks using a field photoionization detector (PID) at the inlet of the SVE blowers, and before, between, and after the vapor-phase GAC units for screening purposes to assess performance of GAC control efficiency and to help assure that the VOC emissions are within the allowable range according to the air discharge permit. In addition, vapor samples are collected before, between, and after the vapor-phase GAC units for laboratory analysis for VOCs per EPA Method TO-15 once a month to confirm compliance with the air discharge permit. Water samples (i.e., condensate water from the air moisture separators) are collected before, between, and after the liquid-phase GAC units on a weekly basis and analyzed for the required parameters in accordance with the water discharge permit.

4.3 Performance Monitoring and Optimization

During operation of the MPA SVE system, performance monitoring is conducted to evaluate:



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- 1. the overall contaminant mass removed by the system,
- 2. system optimization strategies to maximize mass removal and system efficiency, and
- 3. overall remedial progress.

The following performance monitoring is implemented at the site.

4.3.1 System Performance Sampling and Monitoring

The total VOCs are measured at the inlet of each MPA SVE system (Shallow and Deep SVE systems) and at the combined system inlet using a PID during each routine site inspection for screening of VOCs removed by each SVE system. In addition, vapor samples are also collected at each of these locations for laboratory VOC analysis per EPA Method TO-15 to evaluate the overall performance of the system and to estimate overall VOC mass removal. System performance sampling and monitoring is conducted simultaneously with the routine site inspections, as necessary.

4.3.2 Wellhead Soil Vapor Sampling and Monitoring

The following wellhead soil vapor sampling and monitoring program is performed at the site.

Baseline Static and Dynamic Soil Vapor Sampling

A static baseline soil vapor sampling round was completed in October 2005, prior to start-up of the MPA SVE system, and the results were presented in the Completion Report. Dynamic baseline soil vapor sampling (i.e., sampling while the system is operational) was conducted in December 2005 as part of the flow optimization to monitor VOC removal rates at individual SVE wells. Field VOC measurements were taken at the operational SVE wellheads using a PID. The results of the baseline static and dynamic soil vapor sampling rounds act as a baseline for future well field optimization analyses and performance evaluations performed over the course of system operation.

Future Static and Dynamic Soil Vapor Sampling

Future dynamic soil vapor sampling events will be performed as necessary based upon system operational data. Based on the relative trends in VOC vapor concentrations at wellheads, the SVE well field will be optimized to focus airflow on those wells (or groups of wells) that exhibit the highest VOC vapor concentrations and have the highest removal rates by performing dynamic soil vapor sampling and adjusting wells accordingly to maximize VOC recovery rates. When concentration trends become asymptotic and/or concentrations drop to non-detectable levels in a group of wells or an area of the site, then static soil vapor sampling may be implemented as appropriate.

Future static soil vapor sampling events would be performed as determined based upon system operational data and dynamic soil vapor sampling results. The wellhead samples will be collected under static conditions (i.e., system turned off prior to sampling to allow equilibration of soil vapor concentrations). The trends in wellhead vapor concentrations under static

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conditions would be evaluated to determine if concentrations are remaining relatively constant or increasing (rebounding). If VOC levels in soil vapor are rebounding, the SVE well field may be optimized to focus airflow on those wells (or groups of wells) that exhibit the highest VOC concentrations and have the highest removal rates.

4.3.3 SVE Well Field Optimization

Upon review of system performance monitoring data, SVE well field optimization strategies will be recommended as necessary to ensure that system performance is maximized.

5.0 SYSTEM INITIAL OPERATION AND PERFORMANCE DATA

5.1 GENERAL OPERATION, MAINTENANCE, AND MONITORING DATA

Both the MPA SVE and SSV systems operated as designed and were operational throughout the reporting period. The SVE system general operation and monitoring results (i.e., system vacuums, flow rates, etc.) from December 2005 through March 2006 are presented in Table 2 (also summarized in Table 4). The average air flow rates of the Shallow and the Deep SVE systems for the reporting period were approximately 167 and 415 standard cubic feet per minute (scfm), respectively. The combined total average air flow rate of the Shallow and Deep systems was approximately 581 scfm. The Shallow and Deep SVE systems average inlet vacuums were approximately 10.9 and 13.8 inches of mercury (Hg), respectively.

5.2 COMPLIANCE SAMPLING AND MONITORING DATA

Based upon the laboratory analytical results of the air discharge compliance sampling performed during the reporting period, the VOC vapor concentrations have been within the acceptable discharge limits according to the air discharge permit. In accordance with the air discharge permit, this data is submitted to the M&SCHD Air Pollution Control District on a semi-annual basis.

Approximately 3,250 gallons of water has been generated, treated, and discharged to the sanitary sewer system as of April 4, 2006. The analytical results have shown that all parameters have been within acceptable discharge limits. In accordance with the water discharge permit, the aforementioned information is submitted to the Town of Collierville on a quarterly basis.

5.3 Performance Monitoring Data and Mass Removal Estimate

The system performance vapor sampling results from December 2005 through March 2006 are summarized in Table 3. The results are also presented graphically on Figure 4. The laboratory analytical results are included in Appendix A. During MPA SVE system start-up (December 6, 2005), the VOC vapor concentrations in the Shallow, Deep, and combined (total) systems influent were 92, 153, and 94 parts per million by volume (ppmv), respectively. As of April 4, 2006, the VOC vapor concentrations in the Shallow, Deep, and combined (total) systems influent have decreased to 3, 67, and 45 ppmv, respectively. The VOC vapor concentrations in the combined (total) system influent have decreased by approximately 52% since start-up.

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Based on laboratory analyses of the influent vapor samples, the total cumulative VOC mass removed by the Shallow, Deep, and combined systems is estimated to be 206 pounds (lbs), 2,362 lbs and 2,568 lbs, respectively, as of April 4, 2006. The SVE system cumulative VOC mass removal estimates and calculations are included in Table 2 and are presented graphically on Figure 5. As shown in Table 2, the overall VOC mass removal rate for the system's initial well field configuration has declined from approximately 25 lbs/day (December 6, 2005) to 14 lbs/day (April 4, 2006) during the reporting period. The VOC mass removed through the system's water stream (i.e., water generated/treated via the SVE and SSV systems) is less than 1 lb and was not incorporated in the VOC mass removal calculations.

6.0 SUMMARY OF MPA SVE SYSTEM PERFORMANCE

A summary of MPA SVE system performance data from December 2005 through March 2006 is presented in Table 4. The table also provides a comparison of system design performance with the actual performance. As shown in Table 4, both the Shallow and the Deep SVE systems operated at or above the design basis throughout the reporting period. The combined total average air flow rate from both the Shallow and Deep systems was approximately 581 scfm, which is higher than the design air flow rate of 350 to 490 scfm. The overall VOC mass removal rate for system initial well field configuration has declined from approximately 25 lbs/day to 14 lbs/day during the reporting period. As of April 4, 2006, the overall cumulative VOC mass removal of the SVE system was approximately 2,568 lbs.

7.0 RECOMMENDATIONS AND FUTURE ACTIVITIES

At this time, XDD recommends the following activities for 2006:

- Continue to operate the SVE system using the current well field configuration maintaining the balanced flow rates at the wells that are operational.
- Continue to monitor the trends in VOC vapor concentrations over time and the overall VOC mass removal rate.

As discussed previously in this memorandum, in accordance with the Scope of Work (SOW), the MPA SVE system is designed to operate initially in a cyclic manner, with utilizing approximately half of the total SVE wells. When the SVE system influent VOC vapor concentrations and the overall VOC mass removal rates are observed to be declined, the SVE well field will be reconfigured to utilize the wells that exhibit the highest VOC vapor concentrations. It is also anticipated that in later stages of system operation, as the site clean-up progresses, the SVE operation will be focused only on the wells that exhibit residual VOC vapor concentrations, which could be less than half of the total wells.



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Table 1 MPA SVE and SSV Systems Start-up and Operational Chronology (December 2005 through March 2006)

Carrier Air Conditioning Site Collierville, TN

Event	Activities	Date Completed
	MPA SVE static baseline soil vapor sampling	October 27, 2005
System	MPA SVE and SSV Equipment shakedown	November 30, 2005
System	MPA SVE system start-up	December 6, 2005
Start-up	MPA SVE flow optimization & dynamic soil vapor samplin	December 6, 2005
	MPA SSV system start-up	December 8, 2006
	1st Carbon Change-out - SVE system was temporarily shut down on January 13, 2006 to perform the first vapor-phase granular activated carbon (GAC) change-out. System was reactivated on January 18, 2006.	January 18, 2006
System Initial Operation	2nd Carbon Change-out - System was temporarily shut down on March 8, 2006 to perform the second vapor-phase GAC change-out. System was reactivated on March 9, 2006.	March 9, 2006
	Deep SVE System Low Flow Alarm Condition - The Deep SVE system was temporarily shut down on March 14, 2006 due to a low air flow alarm condition. The flow switch was discovered to be defective. The flow switch was replaced and the system was reactivated on March 16, 2006.	March 16, 2006

Notes:

MPA - Main Plant Area SVE - soil vapor extraction SSV - sub-slab ventilation

For chronology of MPA SVE and SSV reconstruction related events prior to October 2005, refer to Table 1 of the "2005 Completion Report - Reconstruction of the Main Plant Area Remedial System", dated December 16, 2005.

Table 2 MPA SVE System Operation and Performance Data (December 2005 through March 2006)

Carrier Air Conditioning Site Collierville, TN

	n			Shallow SVE Syst	em				Deep SVE Syste	em	Combined SVE System				
Date	Well Field Configuration	Inlet Vacuum	Influent Air Flow Rate	Influent VOC Vapor Concentration [1]	VOC Mass Removal Rate	Cumulative VOC Mass Removed	Inlet	Influent Air Flow Rate [2]	Influent VOC Vapor Concentration [1]	VOC Mass Removal Rate [3]	Cumulative VOC Mass Removed [3]	Air Flow	Influent VOC Vapor Concentration [1]	VOC Mass Removal Rate	Cumulative VOC Mass Removed
)	(" Hg)	(scfm)	(mg/m^3)	(lbs/day)	(lbs)	(" Hg)	(scfm)	(mg/m^3)	(lbs/day)	(lbs)	(scfm)	(mg/m^3)	(lbs/day)	(lbs)
12/6/2005		13	150	421	6	60	14	455	784	20	84	605	466	25	143
1/4/2006	eld	12.9	150	135	2	169	14	400	960	28	776	550	605	30	944
1/18/2006	1 Fi	12	155	10	0.1	178	13	530	682	26	1,018	685	420	26	1,195
2/6/2006	Well	12	160	47	1	185	14	421	766	23	1,484	581	459	24	1,669
2/14/2006	st) V tion	11	170	-	-		14	411	-	-	-	581	329	17	1,834
2/21/2006	al (1st) guratio	10	175	-	-	-	14	406	-	-	-	581	384	20	1,964
3/1/2006	Initial Jonfigu	9.5	180	-	-	-	14	258	-	-	-	438	371	15	2,103
3/9/2006	m In Co	8.5	180	17	0.3	200	13	258	468	13	1,999	438	326	13	2,199
3/21/2006	sten	9	185	-	-	-	13.5	454	-		-	639	370	21	2,369
3/28/2006	Sys	9	185	-	-	1	13.5	454	-	-	-	639	186	11	2,481
4/4/2006		9	180	15	0.2	206	14	459	365	14	2,362	639	245	14	2,568

Notes:

MPA - Main Plant Area

°F - Degrees Fahrenheit

" Hg - vacuum in inches of mercury

mg/m3 - milligram per cubic meter

scfm - standard cubic feet per minute

SVE - soil vapor extraction

lbs - pounds

VOCs - volatile organic compounds

- not measured or not calculated

Approximate readings due to malfunctioning of flow meter (data assumed from previous measurements).

VOC mass removed between November 30, 2005 and December 6, 2005 is estimated to be approximately 143 lbs.

^[1] The VOC vapor concentrations are calculated based on all the chemicals detected in the laboratory analyses (EPA Method TO-15).

^[2] The Deep SVE system influent air flow rates are estimated values (not the actual readings/measurements) and are calculated based upon the combined (total) and the Shallow SVE influent air flow rates.

^[3] VOC mass removal rates/cumulative VOC mass removed for the Deep SVE system are calculated based upon the mass removal rates/cumulative VOC mass removed of the combined (total) and Shallow SVE systems.

^[4] Refer to Figure 1 for the system initial well field configuration.

Table 3 MPA SVE System Performance Sampling Results (December 2005 through March 2006)

Carrier Air Conditioning Site Collierville, TN

Vapor			Selected	Site COCs Vapor Concen	trations		NOCH	G 1 1	[1]			
Sampling	Sample Date	cis-1,2-Dichloroethene	cis-1,2-Dichloroethene Tetrachloroethene trans-1,2-Dichloroethene Trichloroethene Vinyl Chloride					VOC Vapor Concentrations (total) ^[1]				
Location				(ppbv)	(ppmv)	(mg/m3)						
	12/6/2005	29,000	ND	470	53,000	1,400	92,170	92	421			
	1/4/2006	6,300	ND	ND	20,000	100	26,400	26	135			
Shallow SVE	1/18/2006	560	ND	ND	1,500	ND	2,060	2	10			
Influent	2/6/2006	2,800	ND	34	6,700	73	9,607	10	47			
	3/9/2006	930	ND	17	2,400	61	3,421	3	17			
	4/4/2006	990	ND	13	2,100	42	3,145	3	15			
	12/6/2005	14,000	ND	ND	130,000	520	153,030	153	784			
	1/4/2006	5,800	ND	ND	170,000	ND	182,200	182	960			
Deep SVE	1/18/2006	4,400	ND	ND	120,000	ND	126,500	127	682			
Influent	2/6/2006	4,000	ND	ND	140,000	ND	144,000	144	766			
	3/9/2006	1,900	ND	ND	86,000	ND	87,900	88	468			
	4/4/2006	1,300	ND	ND	66,000	ND	67,300	67	365			
	12/6/2005	12,000	ND	ND	75,000	430	94,440	94	466			
	1/4/2006	5,200	ND	ND	110,000	ND	120,100	120	605			
	1/18/2006	3,900	ND	ND	74,000	ND	79,700	80	420			
	2/6/2006	3,000	ND	ND	82,000	ND	87,800	88	459			
SVE Combined	2/14/2006	2,300	ND	ND	60,000	ND	62,300	62	329			
Influent	2/21/2006	2,000	ND	ND	69,000	ND	73,500	74	384			
Imiuent	3/1/2006	1,900	450	ND	65,000	ND	70,500	71	371			
	3/9/2006	1,600	ND	ND	60,000	ND	61,600	62	326			
	3/21/2006	1,700	ND	ND	63,000	ND	71,490	71	370			
	3/28/2006	760	ND	ND	32,000	ND	36,460	36	186			
	4/4/2006	1,100	ND	ND	44,000	ND	45,100	45	245			

Notes:

MPA - Main Plant Area

COCs - chemicals of concerns

ND - non detect

VOCs - volatile organic compounds

ppbv - parts per billion by volume

ppmv - parts per million by volume

mg/m3 - milligram per cubic meter

^[1] The VOC vapor concentrations (total) are calculated based on all the chemicals detected in the laboratory analyses (EPA Method TO-15)

Table 4

MPA SVE System Performance Summary (December 2005 through March 2006)

Carrier Air Conditioning Site

Carrier Air Conditioning Site Collierville, TN

System	Performance Parameter	Design Basis	Actual Performance			
	Total No. of Wells Operating	~ 21 wells	25 wells			
GL II GYAT	Total Air Flow Rate	~ 85 - 125 scfm	167 scfm (average) ^[1]			
Shallow SVE System	Total Vacuum (at Blower Inlet)	~ 10 - 13 "Hg	10.9 "Hg (average) ^[1]			
	Influent VOC Vapor Concentration ^[2]	NS	92 ppmv (12-06-05) 3 ppmv (4-04-06)			
	VOC Mass Removal Rate	NS	6 lbs/day (12-06-05) 0.2 lbs/day (4-04-06)			
	Cumulative VOC Mass Removed	NS	206 lbs (as of 4-04-06)			
	Total No. of Wells Operating	~ 26 wells (~ 24 Deep wells and 2 Deep Sand wells)	29 wells (27 Deep wells and 2 Deep Sand wells)			
	Total Air Flow Rate	~ 265 - 365 scfm	415 scfm (average) ^[1]			
Deep and Deep	Total Vacuum (at Blower Inlet)	~ 10 - 14 "Hg	13.8 "Hg (average) ^[1]			
Sand SVE System	Influent VOC Vapor Concentration ^[2]	NS	153 ppmv (12-06-05) 67 ppmv (4-04-06)			
	VOC Mass Removal Rate	NS	20 lbs/day (12-06-05) 14 lbs/day (4-04-06)			
	Cumulative VOC Mass Removed	NS	2,362 lbs (as of 4-04-06)			
	Total No. of Wells Operating	~ 47 wells	54 wells			
	Total Air Flow Rate	~ 350 - 490 scfm	581 scfm (average) ^[1]			
Combined (Total)	Influent VOC Vapor Concentration ^[2]	~ 20 - 120 ppmv	94 ppmv (12-06-05) 45 ppmv (4-04-06)			
	VOC Mass Removal Rate	~ 5 to 30 lbs/day [3]	25 lbs/day (12-06-05) 14 lbs/day (4-04-06)			
	Cumulative VOC Mass Removed	NS	2,568 lbs (as of 4-04-06)			

Notes:

SVE - soil vapor extraction

"Hg - inches of mercury

scfm - standard cubic feet per minute

ppmv - parts per million by volume

lbs - pounds

MPA - Main Plant Area

VOC - volatile organic compound

NS - not specified

 $^{^{[1]}}$ Time weighted average of all the vacuums and air flow rates measured from December 2005 through March 2006

^[2] The VOC vapor concentrations are calculated based on all the chemicals detected in the laboratory analyses (EPA Method TO-15).

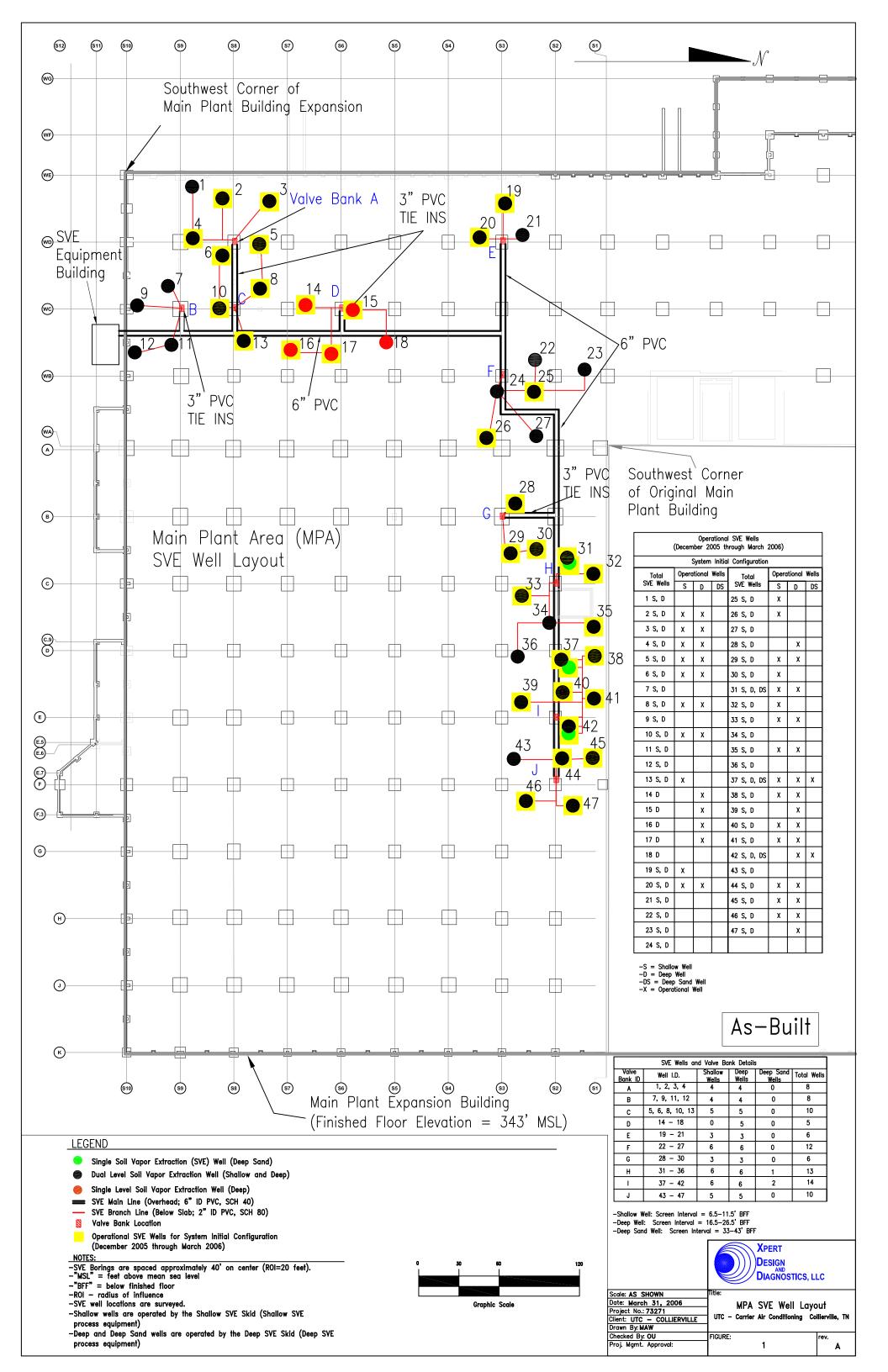
^[3] The estimated VOC mass removal rates are based on the SVE well flow testing performed in April 2005.

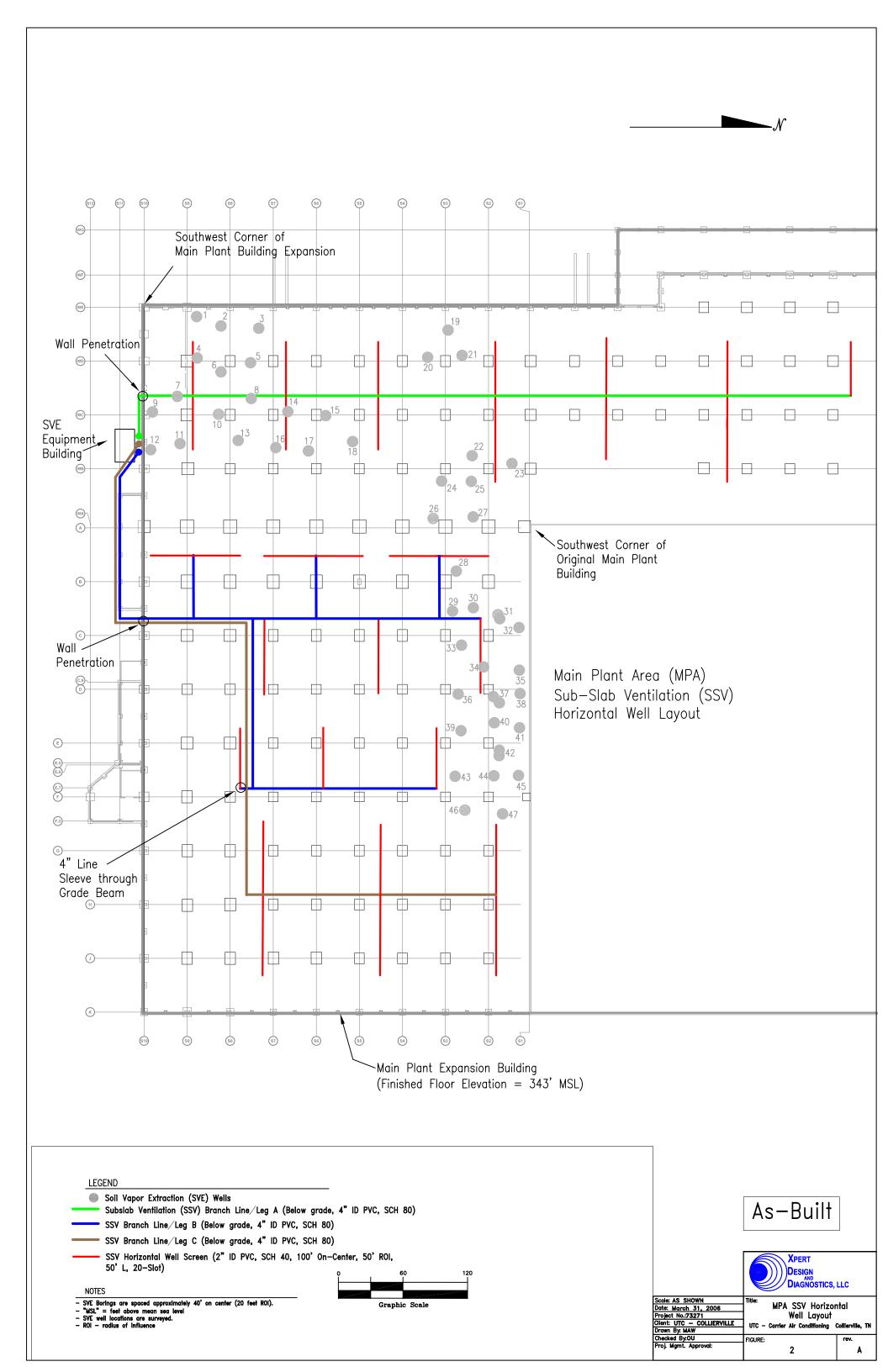


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Carrier Air Conditioning Site – Collierville, TN XDD Project No. 73271 June 30, 2006 FIGURES

FIGURES





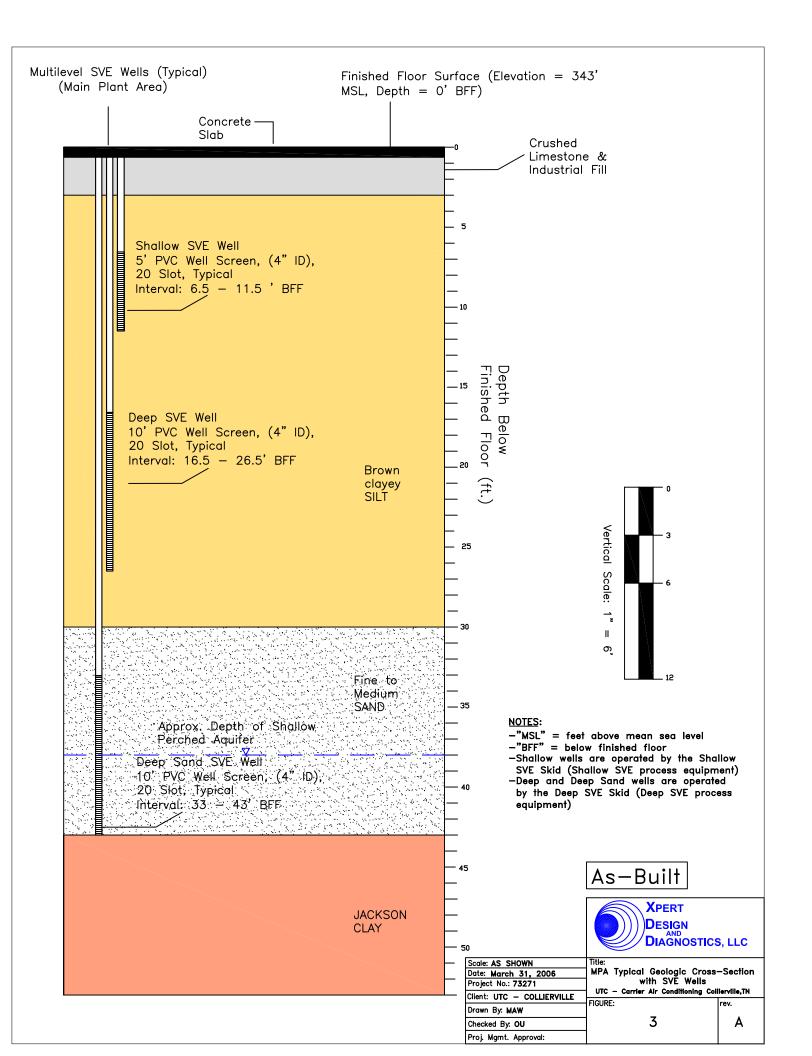
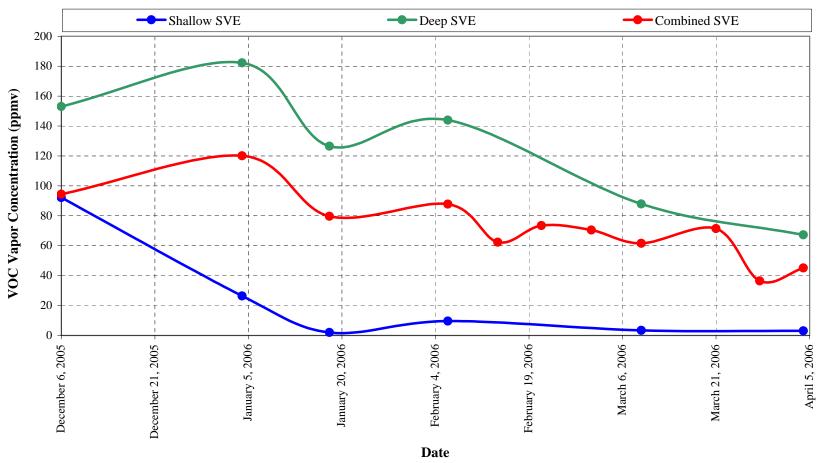


Figure 4
MPA SVE System Influent VOC Vapor Concentrations
(December 2005 through March 2006)

Carrier Air Conditioning Site Collierville, TN



Notes:

MPA - Main Plant Area

VOC - volatile organic compounds

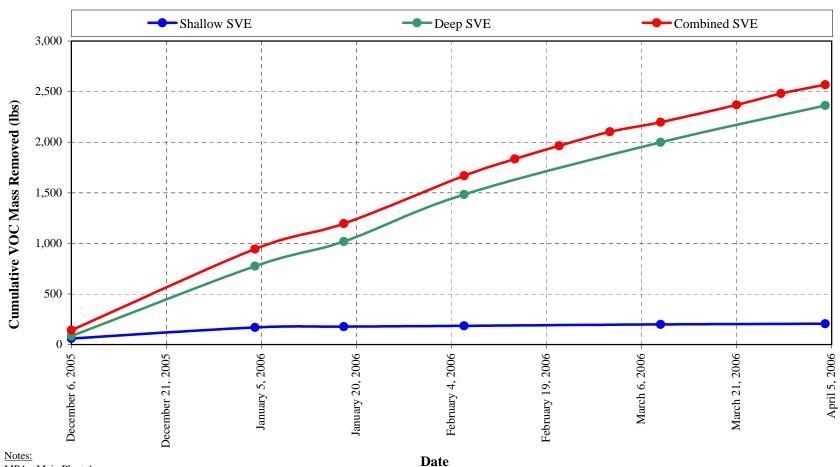
ppmv - parts per million by volume

SVE - soil vapor extraction

The VOC vapor concentrations are calculated based on all the chemicals detected in the laboratory analyses (EPA Method TO-15).

Figure 5
MPA SVE System Cumulative VOC Mass Removal
(December 2005 through March 2006)

Carrier Air Conditioning Site Collierville, TN



MPA - Main Plant Area

SVE - soil vapor extraction

VOCs - volatile organic compounds

lbs - pounds

Refer to Table 2 for the VOC mass removal calculations and assumptions.



RECONSTRUCTED MPA REMEDIATION SYSTEM

Carrier Air Conditioning Site – Collierville, TN XDD Project No. 73271 June 30, 2006 APPENDICES

APPENDICES



RECONSTRUCTED MPA REMEDIATION SYSTEM

Carrier Air Conditioning Site – Collierville, TN XDD Project No. 73271 June 30, 2006 APPENDICES

APPENDIX A

MPA SVE PERFORMANCE SAMPLING LABORATORY ANALYTICAL RESULTS



RECEIVED DEC 1 6 2005

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

December 08, 2005

Client:

SAS Environmental Inc. (3403)

1270 S.Clevleand-Massillon Building A

Akron, OH 44321

Attn:

Mark V. Allen

Work Order:

NOL0745

Project Name:

UT Collierville

Project Nbr: Date Received: 12/07/05

031091

13271 - Technical MPA SVE Startup Analytical

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME	Data
Deep SVE Influent	NOL0745-01	12/06/05 15:52	
Shallow SVE Influent	NOL0745-02	12/06/05 15:47	
Combined SVE Influent	NOL0745-03	12/06/05 15:55	
Intermediate SVE Effluent	NOL0745-04	12/06/05 15:34	
System SVE Effluent	NOL0745-05	12/06/05 15:31	

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accredidation.

is material is intended only for the use of the individual(s) or entity to whom it is addressed, and may contain information that is dleged and confidential. If you are not the intended recipient, or the employee or agent responsible for delivering this material to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this material is strictly prohibited. If you have received this material in error, please notify us immediately at 615-726-0177.

Tennessee Certification Number: 02008

These results relate only to the items tested. This report shall not be reproduced except in full and with permission of the laboratory. Report Approved By:

Roxanne Connor

Senior Project Manager

Hoxavre L. Connor



ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Dient SAS Environmental Inc. (3403)

1270 S.Clevleand-Massillon Building A

Akron, OH 44321

Mark V. Allen

Work Order:

NOL0745

Project Name:

UT Collierville

Project Number: 031091

Received:

12/07/05 13:21

ANALYTICAL REPORT

Analysis Dilution

Date/Time Factor Method Analyst Batch MRL nalyte Flag Units Result

imple ID: NOL0745-01 (Deep SVE Influent - Air) Sampled: 12/06/05 15:52

lodified TO-15

ee Attached Report

imple ID: NOL0745-02 (Shallow SVE Influent - Air) Sampled: 12/06/05 15:47

lodified TO-15

ee Attached Report

imple ID: NOL0745-03 (Combined SVE Influent - Air) Sampled: 12/06/05 15:55

lodified TO-15

ee Attached Report

mple ID: NOL0745-04 (Intermediate SVE Effluent - Air) Sampled: 12/06/05 15:34

1TO-15

e Attached Report

mple ID: NOL0745-05 (System SVE Effluent - Air) Sampled: 12/06/05 15:31

lodified TO-15

e Attached Report



ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client SAS Environmental Inc. (3403)

1270 S.Clevleand-Massillon Building A

Akron, OH 44321

Mark V. Allen

Work Order:

NOL0745

Project Name:

UT Collierville

Project Number: 031091

Received:

12/07/05 13:21

CERTIFICATION SUMMARY

'estAmerica Analytical - Nashville

Nelac Tennessee Method AIHA Matrix

subcontract

Attn

Air

Test merica 2960 Foster Creighton Hashville, TN 37204

Phone: 615-726-0177 Fax: 615-726-3404 NOLU

12/16/05 17:00

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes? Compliance Monitorion

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Test/America

Sample NonConformance/COC Revision Form

Initiated by:

kthompson

Phone:

330-666-1546

NC Closed Date Closed

Client Name:

SDG:

Client Contact: Client Account:

3403

SAS ENVIRONME

Date Created:

Analyst: 12/7/2005 Supervisor:

NC #:

NC Type:

Project Name:

UT Collierville

Terminal Manager:

Sample Range:

Project Number:

031091

Project Origin

Regulatory:

Corrected By:

Jim Jacobs

Process: Other NC/Process: See Comment Section Below

Corrected action not chosen

Closed: 🗹

JDJacobs

Comments:

Action:

Comment added by: JDJacobs on 12/7/2005 1:26:05 PM

Done Work Order NOL0745

Please assign a work order number for this project. Samples sent direct to Air Toxics. I need this done ASAP to subcontract COC to Air Toxics. This is a quick TAT project.



NOL0745



Air Toxics Ltd. Introduces the Electronic Report

Thank you for choosing Air Toxics Ltd. To better serve our customers, we are providing your report by e-mail. This document is provided in Portable Document Format which can be viewed with Acrobat Reader by Adobe.

This electronic report includes the following:

- Work order Summary;
- · Laboratory Narrative;
- · Results; and
- · Chain of Custody (copy).

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0512143

Work Order Summary

CLIENT:

Ms. Kenyatta Thompson

BILL TO:

Ms. Kenyatta Thompson

Test America

Test America

2960 Foster Creighton Dr. Nashville, TN 37204

2960 Foster Creighton Dr. Nashville, TN 37204

PHONE:

800-765-0980

P.O. #

FAX:

615-726-3404

PROJECT#

NOL0745

DATE RECEIVED: DATE COMPLETED: 12/07/2005

CONTACT:

Susan Alaniz

FRACTION#	NAME	TEST	RECEIPT <u>VAC/PRES.</u>
01A	Deep SVE Influent	Modified TO-15	Tedlar Bag
02A	Shallow SVE Influent	Modified TO-15	Tedlar Bag
03A	Combined SVE Influent	Modified TO-15	Tedlar Bag
04A	Intermediate SVE Effluent	Modified TO-15	Tedlar Bag
04AA	Intermediate SVE Effluent Duplicate	Modified TO-15	Tedlar Bag
05A	System SVE Effluent	Modified TO-15	Tedlar Bag
06A	Lab Blank	Modified TO-15	NA
07A	CCV	Modified TO-15	NA
08A	LCS	Modified TO-15	NA

CERTIFIED BY:

Sinder A. Frances

12/08/05

Laboratory Director

Certification numbers: AR DEQ - 03-084-0, CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004 NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/05, Expiration date: 06/30/06

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

LABORATORY NARRATIVE Modified TO-15 Test America Workorder# 0512143

Five 1 Liter Tedlar Bag samples were received on December 07, 2005. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

Method modifications taken to run these samples are summarized in the below table. Specific project requirements may over-ride the ATL modifications.

Requirement	TO-15	ATL Modifications
Daily CCV	+- 30% Difference	= 30% Difference with two allowed out up to </=40%.;<br flag and narrate outliers
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

The Chain of Custody (COC) information for samples Intermediate SVE Effluent and System SVE Effluent did not match the entries on the sample tags with regard to sample identification. The discrepancy was noted in the Sample Receipt Confirmation email/fax and the information on the COC was used to process and report the samples.

Analytical Notes

The reported LCS for each daily batch has been derived from more than one analytical file.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated peak.
 - Q Exceeds quality control limits.
 - U Compound analyzed for but not detected above the reporting limit.
 - UJ- Non-detected compound associated with low bias in the CCV
 - N The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

Summary of Detected Compounds MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: Deep SVE Influent

Lab ID#: 0512143-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	500	520	1300	1300
Acetone	2000	2200	4800	5300
2-Propanol	2000	3200	4900	8000
Carbon Disulfide	500	1300	1600	4100
cis-1,2-Dichloroethene	500	14000	2000	58000
Tetrahydrofuran	500	560	1500	1600
1,1,1-Trichloroethane	500	590	2700	3200
Trichloroethene	500	130000	2700	700000
Toluene	500	660	1900	2500

Client Sample ID: Shallow SVE Influent

Lab ID#: 0512143-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyi Chloride	250	1400	640	3600
Acetone	1000	2000	2400	4700
2-Propanol	1000	2100	2400	5200
Carbon Disulfide	250	1200	780	3900
Methylene Chloride	250	310	870	1100
trans-1.2-Dichloroethene	250	470	990	1900
2-Butanone (Methyl Ethyl Ketone)	250	630	740	1900
cis-1,2-Dichloroethene	250	29000	990	110000
Tetrahydrofuran	250	500	740	1500
1,1,1-Trichloroethane	250	450	1400	2500
Cyclohexane	250	340	860	1200
Trichloroethene	250	53000	1300	280000
Toluene	250	520	940	1900
m,p-Xylene	250	250	1100	1100

Client Sample ID: Combined SVE Influent

Lab ID#: 0512143-03A

Compound	Rot. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	250	430	640	1100
Acetone	1000	2200	2400	5200
2-Propanol	1000	1900	2400	4600
Carbon Disulfide	250	1500	780	4800
Methylene Chloride	250	280	870	990
2-Butanone (Methyl Ethyl Ketone)	250	320	740	930

Client Sample ID: Combined SVE Influent

Lab ID#; 0512143-03A				
cis-1,2-Dichloroethene	250	12000	990	46000
Tetrahydrofuran	250	290	740	860
Trichloroethene	250	75000	1300	400000
Toluene	250	520	940	2000

Client Sample ID: Deep SVE Influent

Lab ID#: 0512143-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name: Dll. Factor:	1120717 - 5 - 127 - 5 - 127 - 5		Date of Collection: 12/6/05 Date of Analysis: 12/8/05 02:47 AM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)	
Freon 12	500	Not Detected	2500	Not Detected	
Freon 114	500	Not Detected	3500	Not Detected	
Chloromethane	2000	Not Detected	4100	Not Detected	
Vinyl Chloride	500	520	1300	1300	
1,3-Butadiene	500	Not Detected	1100	Not Detected	
Bromomethane	500	Not Detected	1900	Not Detected	
Chloroethane	500	Not Detected	1300	Not Detected	
Freon 11	500	Not Detected	2800	Not Detected	
Ethanol	2000	Not Detected	3800	Not Detected	
Freon 113	500	Not Detected	3800	Not Detected	
1,1-Dichloroethene	500	Not Detected	2000	Not Detected	
Acetone	2000	2200	4800	5300	
2-Propanol	2000	3200	4900	8000	
Carbon Disulfide	500	1300	1600	4100	
3-Chloropropene	2000	Not Detected	6300	Not Detected	
Methylene Chloride	500	Not Detected	1700	Not Detected	
Methyl tert-butyl ether	500	Not Detected	1800	Not Detected	
trans-1,2-Dichloroethene	500	Not Detected	2000	Not Detected	
Hexane	500	Not Detected	1800	Not Detected	
1,1-Dichloroethane	500	Not Detected	2000	Not Detected	
2-Butanone (Methyl Ethyl Ketone)	500	Not Detected	1500	Not Detected	
cis-1,2-Dichloroethene	500	14000	2000	58000	
Tetrahydrofuran	500	560	1500	1600	
Chloroform	500	Not Detected	2400	Not Detected	
1,1,1-Trichloroethane	500	590	2700	3200	
Cyclohexane	500	Not Detected	1700	Not Detected	
Carbon Tetrachloride	500	Not Detected	3100	Not Detected	
2,2,4-Trimethylpentane	500	Not Detected	2300	Not Detected	
Benzene	500	Not Detected	1600	Not Detected	
1,2-Dichloroethane	500	Not Detected	2000	Not Detected	
Heptane	500	Not Detected	2000	Not Detected	
rrichloroethene	500	130000	2700	700000	
1,2-Dichloropropane	500	Not Detected	2300	Not Detected	
1,4-Dioxane	2000	Not Detected	7200	Not Detected	
Bromodichloromethane	500	Not Detected	3400	Not Detected	
cis-1,3-Dichloropropene	500	Not Detected	2300	Not Detected	
4-Methyl-2-pentanone	500	Not Detected	2000	Not Detected	
Toluene	500	660	1900	2500	
trans-1,3-Dichloropropene	500	Not Detected	2300	Not Detected	
	500	Not Detected	2700	Not Detected	
1,1,2-Trichloroethane	500	Not Detected	3400	Not Detected	
Tetrachloroethene 2-Hexanone	2000	Not Detected	8200	Not Detected	

Client Sample ID: Deep SVE Influent

Lab ID#: 0512143-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name: Dil, Factor:	1120717 1000	Date of Collection: 12/6/05 Date of Analysis: 12/8/05 02:47 AM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	500	Not Detected	4200	Not Detected
1,2-Dibromoethane (EDB)	500	Not Detected	3800	Not Detected
Chlorobenzene	500	Not Detected	2300	Not Detected
Ethyl Benzene	500	Not Detected	2200	Not Detected
m,p-Xvlene	500	Not Detected	2200	Not Detected
o-Xylene	500	Not Detected	2200	Not Detected
Styrene	500	Not Detected	2100	Not Detected
Bromoform	500	Not Detected	5200	Not Detected
Cumene	500	Not Detected	2400	Not Detected
1,1,2,2-Tetrachloroethane	500	Not Detected	3400	Not Detected
	500	Not Detected	2400	Not Detected
Propylbenzene	500	Not Detected	2400	Not Detected
4-Ethyltoluene	500	Not Detected	2400	Not Detected
1,3,5-Trimethylbenzene	500	Not Detected	2400	Not Detected
1,2,4-Trimethylbenzene	500	Not Detected	3000	Not Detected
1,3-Dichlorobenzene	500	Not Detected	3000	Not Detected
1,4-Dichlorobenzene	500	Not Detected	2600	Not Detected
alpha-Chlorotoluene	500	Not Detected	3000	Not Detected
1,2-Dichlorobenzene	2000	Not Detected	15000	Not Detected
1,2,4-Trichlorobenzene	2000	Not Detected	21000	Not Detected
Hexachlorobutadiene Container Type: 1 Liter Tedlar Bag				Method
Surrogates		%Recovery		Limits
Toluene-d8		101		70-130
1,2-Dichloroethane-d4		100		70-130
4-Bromofluorobenzene		100		70-130

Client Sample ID: Shallow SVE Influent

Lab ID#: 0512143-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name: DII. Factor:	11207/15 Date of Collection: 12/6 500 Date of Analysis: 12/7/0			2/7/05 11:05 PM
	Rpt, Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Compound	250	Not Detected	1200	Not Detected
Freon 12	250	Not Detected	1700	Not Detected
Freon 114	1000	Not Detected	2100	Not Detected
Chloromethane	250	1400	640	3600
/inyl Chloride	250	Not Detected	550	Not Detected
1,3-Butadiene	250	Not Detected	970	Not Detected
Bromomethane	250 250	Not Detected	660	Not Detected
Chloroethane	250 250	Not Detected	1400	Not Detected
Freon 11	1000	Not Detected	1900	Not Detected
Ethanol		Not Detected	1900	Not Detected
Freon 113	250 250	Not Detected	990	Not Detected
1,1-Dichloroethene		2000	2400	4700
Acetone	1000 1000	2100	2400	5200
2-Propanol	250	1200	780	3900
Carbon Disulfide	250 1000	Not Detected	3100	Not Detected
3-Chloropropene		310	870	1100
Methylene Chloride	250	Not Detected	900	Not Detected
Methyl tert-butyl ether	250	470	990	1900
trans-1,2-Dichloroethene	250	Not Detected	880	Not Detected
Hexane	250	Not Detected	1000	Not Detected
1,1-Dichloroethane	250		740	1900
2-Butanone (Methyl Ethyl Ketone)	250	630 29000	990	110000
cis-1,2-Dichloroethene	250	29000 500	740	1500
Tetrahydrofuran	250		1200	Not Detected
Chloroform	250	Not Detected 450	1400	2500
1,1,1-Trichioroethane	250	340	860	1200
Cyclohexane	250		1600	Not Detected
Carbon Tetrachloride	250	Not Detected	1200	Not Detected
2,2,4-Trimethylpentane	250	Not Detected Not Detected	800	Not Detected
Benzene	250		1000	Not Detected
1,2-Dichloroethane	250	Not Detected	1000	Not Detected
Heptane	250	Not Detected	1300	280000
Trichloroethene	250	53000	1200	Not Detected
1,2-Dichloropropane	250	Not Detected	3600	Not Detected
1,4-Dioxane	1000	Not Detected	1700	Not Detected
Bromodichloromethane	250	Not Detected	1100	Not Detected
cis-1,3-Dichloropropene	250	Not Detected	1000	Not Detected
4-Methyl-2-pentanone	250	Not Detected	940	1900
Toluene	250	520	1100	Not Detected
trans-1,3-Dichloropropene	250	Not Detected	1400	Not Detected
1,1,2-Trichloroethane	250	Not Detected	1700	Not Detected
Tetrachloroethene	250	Not Detected	4100	Not Detected
2-Hexanone	1000	Not Detected	4100	

Client Sample ID: Shallow SVE Influent

Lab ID#: 0512143-02A

File Name: DII. Factor:	11207)5 500		Date of Collection: Date of Analysis: 1	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
	250	Not Detected	2100	Not Detected
Dibromochloromethane	250	Not Detected	1900	Not Detected
1,2-Dibromoethane (EDB)	250	Not Detected	1200	Not Detected
Chlorobenzene	250	Not Detected	1100	Not Detected
Ethyl Benzene	250	250	1100	1100
m.p-Xylene	250	Not Detected	1100	Not Detected
o-Xylene	250	Not Detected	1100	Not Detected
Styrene	250	Not Detected	2600	Not Detected
Bromoform	250 250	Not Detected	1200	Not Detected
Cumene	250 250	Not Detected	1700	Not Detected
1,1,2,2-Tetrachloroethane	250	Not Detected	1200	Not Detected
Propylbenzene	250	Not Detected	1200	Not Detected
4-Ethyltoluene	250 250	Not Detected	1200	Not Detected
1,3,5-Trimethylbenzene	250 250	Not Detected	1200	Not Detected
1,2,4-Trimethylbenzene		Not Detected	1500	Not Detected
1,3-Dichlorobenzene	250		1500	Not Detected
1,4-Dichlorobenzene	250	Not Detected	1300	Not Detected
alpha-Chlorotoluene	250	Not Detected	1500	Not Detected
1,2-Dichlorobenzene	250	Not Detected	7400	Not Detected
1,2,4-Trichlorobenzene	1000	Not Detected	11000	Not Detected
Hexachlorobutadiene	1000	Not Detected	11000	
Container Type: 1 Liter Tedlar Bag				Method
Surrogates		%Recovery		Limits
		101		70-130
Toluene-d8		102		70-130
1,2-Dichloroethane-d4				

Client Sample ID: Combined SVE Influent

Lab ID#: 0512143-03A

File Name : Dil. Factor:	1120713 500		Date of Collection: Date of Analysis: 1	12/6/05 2/7/05 09:01 PM
	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Compound	250	Not Detected	1200	Not Detected
Freon 12	250	Not Detected	1700	Not Detected
Freon 114	1000	Not Detected	2100	Not Detected
Chloromethane	250	430	640	1100
/inyl Chloride	250	Not Detected	550	Not Detected
,3-Butadiene		Not Detected	970	Not Detected
Bromomethane	250	Not Detected	660	Not Detected
Chloroethane	250	Not Detected	1400	Not Detected
reon 11	250		1900	Not Detected
Ethanol	1000	Not Detected	1900	Not Detected
reon 113	250	Not Detected	990	Not Detected
,1-Dichloroethene	250	Not Detected	2400	5200
Acetone	1000	2200	2400	4600
2-Propanol	1000	1900	780	4800
Carbon Disulfide	250	1500		Not Detected
3-Chloropropene	1000	Not Detected	3100	990
Methylene Chloride	250	280	870	Not Detected
Methyl tert-butyl ether	250	Not Detected	900	
rans-1,2-Dichloroethene	250	Not Detected	990	Not Detected
Hexane	250	Not Detected	880	Not Detected
I,1-Dichloroethane	250	Not Detected	1000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	250	320	740	930
bis-1,2-Dichloroethene	250	12000	990	46000
Tetrahydrofuran	250	290	740	860
Chloroform	250	Not Detected	1200	Not Detected
	250	Not Detected	1400	Not Detected
1,1,1-Trichloroethane	250	Not Detected	860	Not Detected
Cyclohexane	250	Not Detected	1600	Not Detected
Carbon Tetrachloride	250	Not Detected	1200	Not Detected
2,2,4-Trimethylpentane	250	Not Detected	800	Not Detected
Benzene	250	Not Detected	1000	Not Detected
1,2-Dichloroethane	250	Not Detected	1000	Not Detected
Heptane	250	75000	1300	400000
Trichloroethene		Not Detected	1200	Not Detected
1,2-Dichloropropane	250 1000	Not Detected	3600	Not Detected
1,4-Dioxane		Not Detected	1700	Not Detected
Bromodichloromethane	250	· · · · · · · · · · · · · · · · · · ·	1100	Not Detected
cis-1,3-Dichlоторгорепе	250	Not Detected	1000	Not Detected
4-Methyl-2-pentanone	250	Not Detected	940	2000
Toluene	250	520	1100	Not Detected
trans-1,3-Dichloropropene	250	Not Detected	1400	Not Detected
1,1,2-Trichloroethane	250	Not Detected		Not Detected
Tetrachloroethene	250	Not Detected	1700	Not Detected
2-Hexanone	1000	Not Detected	4100	MOT DOTECTED

Client Sample ID: Combined SVE Influent

Lab ID#: 0512143-03A

File Name:	1120713 500		Date of Collection; Date of Analysis: 1	12/6/05 2/7/05 09:01 PM
DII, Factor:	Rpt. Limit (ppbv)	Amount (ppby)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Compound	250	Not Detected	2100	Not Detected
Dibromochloromethane	250	Not Detected	1900	Not Detected
1,2-Dibromoethane (EDB)	250 250	Not Detected	1200	Not Detected
Chlorobenzene	250	Not Detected	1100	Not Detected
Ethyl Benzene	250	Not Detected	1100	Not Detected
m,p-Xylene	250	Not Detected	1100	Not Detected
o-Xylene	250	Not Detected	1100	Not Detected
Styrene	250	Not Detected	2600	Not Detected
Bromoform	250	Not Detected	1200	Not Detected
Cumene		Not Detected	1700	Not Detected
1,1,2,2-Tetrachloroethane	250 250	Not Detected	1200	Not Detected
Propylbenzene	250 250	Not Detected	1200	Not Detected
4-Ethyltoluene	250 250	Not Detected	1200	Not Detected
1,3,5-Trimethylbenzene		Not Detected	1200	Not Detected
1,2,4-Trimethylbenzene	250	Not Detected	1500	Not Detected
1,3-Dichiorobenzene	250	Not Detected	1500	Not Detected
1,4-Dichlorobenzene	250	Not Detected	1300	Not Detected
alpha-Chiorotoluene	250	Not Detected	1500	Not Detected
1,2-Dichlorobenzene	250	Not Detected	7400	Not Detected
1,2,4-Trichlorobenzene	1000	Not Detected	11000	Not Detected
Hexachlorobutadiene	1000	Not Detector		***************************************
Container Type: 1 Liter Tedlar Bag				Method
		%Recovery		L.imits
Surrogates		100		70-130
Toluene-d8		103		70-130
1,2-Dichloroethane-d4 4-Bromofluorobenzene		103		70-130



ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client SAS Environmental Inc. (3403)

1270 S.Clevleand-Massillon Building A

Akron, OH 44321

Mark V. Allen

Attn

Work Order:

NPA0432

Project Name:

UT Collierville

Project Number:

031091

Received:

01/06/06 14:54

CERTIFICATION SUMMARY

TestAmerica Analytical - Nashville

Method Matrix AIHA Nelac Tennessee
subcontract Air

SUBCONTRACT ORDER

TestAmerica Analytical - Nashville NPA0432

SENDING LABORATOR	<u>Y:</u>		RECEIVING LABORATORY:	
TestAmerica Analytical - 2960 Foster Creighton Ro Nashville, TN 37204 Phone: 800-765-0980 Fax: 615-726-3404 Project Manager: Kenya			Air Toxics LTD (11938) 180-B Blue Ravine Road Folsom, CA 95630 Phone :(800) 985-5955 Fax: (916) 985-1020	
Shipped direct to Air Toxics by 0601038	client			
Analysis	Due	Expires	Comments	
Sample ID: NPA0432-01	Air	Sampled:01	04/06 16:33	1000 2000 1000
Volatile Organics in Air by Containers Supplied:		01/07/06 16:33	TO-15 subbed to Air Toxics	
Tedlar Bag 1L (A)	Tedlar Bag 1L (B)			**************************************
Sample ID: NPA0432-02	Air	Sampled: 01	04/06 16:45	
Volatile Organics in Air by Containers Supplied: Tedlar Bag 1L (A)	TO-01/09/06 15:00 Tedlar Bag 1L (B)	01/07/06 16:45	TO-15 subbed to Air Toxics	
Sample ID: NPA0432-03	Air	Sampled: 01	04/06 16:43	
Volatile Organics in Air by	TO-01/09/06 15:00	01/07/06 16:43	TO-15 subbed to Air Toxics	
Containers Supplied: Tedlar Bag 1L (A)	Tedlar Bag 1L (B)			
Sample ID: NPA0432-04	Air	Sampled: 01	04/06 16:40	
Volatile Organics in Air by Containers Supplied: Tedlar Bag 1L (A)	TO-01/09/06 15:00 Tedlar Bag 1L (B)	01/07/06 16:40	TO-15 subbed to Air Toxics	
Sample ID: NPA0432-05	Air	Sampled: 01	04/06 16:38	
Volatile Organics in Air by Containers Supplied: Tedlar Bag 1L (A)	TO-01/09/06 15:00 Tedlar Bag 1L (B)	01/07/06 16:38	TO-15 subbed to Air Toxics	



NPA0432

Released By	Date	Received By	Date
Released By	Date	Received By	Date

01/09/06 17:00

06.1038

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2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Tax 615-726-3404 Fechnical

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MPA SNE Startuf

Analytical Data

Analytical

January 10, 2006

Client: SAS Environmental Inc. (3403)

1270 S.Clevleand-Massillon Building A

Akron, OH 44321

Attn: Mark V. Allen

NPA0432 Work Order:

UT Collierville Project Name:

031091 Project Nbr: 01/06/06 Date Received:

COLLECTION DATE AND TIME

LAB NUMBER SAMPLE IDENTIFICATION 01/04/06 16:33 NPA0432-01 SVE 101 ENF 01/04/06 16:45 NPA0432-02 SVE 201 INF 01/04/06 16:43 NPA0432-03 SVE COMBINED INF 01/04/06 16:40 NPA0432-04 SVE INT 01/04/06 16:38 NPA0432-05 SVE EFF

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accredidation.

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Tennessee Certification Number: 02008

The Chain(s) of Custody, 24 pages, are included and are an integral part of this report.

These results relate only to the items tested. This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By:

Roxanne Connor

Senior Project Manager

Roxanne L. Connor



2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client SAS Environmental Inc. (3403)

1270 S.Clevleand-Massillon Building A

Akron, OH 44321

Mark V. Allen

Attn

Work Order:

NPA0432

Project Name:

UT Collierville

Project Number:

031091

Received:

01/06/06 14:54

ANALYTICAL REPORT

Analyte Result Flag Units MRL Factor Date/Time Method Batch

Sample ID: NPA0432-01 (SVE 101 ENF - Air) Sampled: 01/04/06 16:33

Subcontracted Analysis

See Attached Report

Sample ID: NPA0432-02 (SVE 201 INF - Air) Sampled: 01/04/06 16:45

Subcontracted Analysis See Attached Report

Sample ID: NPA0432-03 (SVE COMBINED INF - Air) Sampled: 01/04/06 16:43

Subcontracted Analysis See Attached Report

Sample ID: NPA0432-04 (SVE INT - Air) Sampled: 01/04/06 16:40

Shoontracted Analysis tached Report

Sample ID: NPA0432-05 (SVE EFF - Air) Sampled: 01/04/06 16:38

Subcontracted Analysis See Attached Report

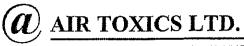


Air Toxics Ltd. Introduces the Electronic Report

Thank you for choosing Air Toxics Ltd. To better serve our customers, we are providing your report by e-mail. This document is provided in Portable Document Format which can be viewed with Acrobat Reader by Adobe.

This electronic report includes the following:

- · Work order Summary;
- Laboratory Narrative;
- · Results; and
- · Chain of Custody (copy).



WORK ORDER #:

0601038

Work Order Summary

CLIENT:

Ms. Kenyatta Thompson

BILL TO: Ms. Kenyatta Thompson

Test America

2960 Foster Creighton Dr.

2960 Foster Creighton Dr. Nashville, TN 37204

Nashville, TN 37204

PHONE:

800-765-0980

Test America

7608 P.O. #

FAX:

615-726-3404

PROJECT#

031091 UT Colierville

DATE RECEIVED:

01/05/2006

CONTACT:

Susan Alaniz

DATE COMPLETED:

01/06/2006

			RECEIPT
FRACTION#	<u>NAME</u>	TEST	VAC./PRES.
01A	SVE 101 INF	Modified TO-15	Tedlar Bag
02A	SVE201 INF	Modified TO-15	Tedlar Bag
03A	SVE COMBINED INF	Modified TO-15	Tedlar Bag
04A	SVE INT	Modified TO-15	Tedlar Bag
05A	SVE EFF	Modified TO-15	Tedlar Bag
06A	Lab Blank	Modified TO-15	NA
07A	CCV	Modified TO-15	NA
08A	LCS	Modified TO-15	ÑΑ

CERTIFIED BY:

Linds d. Fruman

01/06/06 DATE:

Laboratory Director

Certification numbers: AR DEQ - 03-084-0, CA NELAP - 02110CA, LA NELAP/LELAP - AI 30763, NJ NELAP - CA004 NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/05, Expiration date: 06/30/06

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630 (916) 985-1000. (800) 985-5955. FAX (916) 985-1020

LABORATORY NARRATIVE Modified TO-15

Test America Workorder# 0601038

Five 1 Liter Tedlar Bag samples were received on January 05, 2006. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

Method modifications taken to run these samples are summarized in the below table. Specific project requirements may over-ride the ATL modifications.

Requirement	TO-15	ATL Modifications
Daily CCV	+- 30% Difference	= 30% Difference with two allowed out up to </=40%.; flag and narrate outliers</p
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The reported LCS for each daily batch has been derived from more than one analytical file.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit (background subtraction no performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated peak.
 - Q Exceeds quality control limits.
 - U Compound analyzed for but not detected above the reporting limit.
 - UJ- Non-detected compound associated with low bias in the CCV
 - N The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector r1-File was requantified for the purpose of reissue

Summary of Detected Compounds MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SVE 101 INF

Lab ID#: 0601038-01A

Compound	Rpt. Limit (ppbv)	Amounf (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	100	100	260	260
cis-1,2-Dichloroethene	100	6300	400	25000
Trichloroethene	100	20000	540	110000

Client Sample ID: SVE201 INF

Lab ID#: 0601038-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	(uG/m3)
2-Propanol	2700	5000	6500	12000
cis-1,2-Dichloroethene	660	5800	2600	23000
Trichloroethene	660	170000	3600	920000
Toluene	660	1400	2500	5100

Client Sample ID: SVE COMBINED INF

Lab ID#: 0601038-03A

Compound	Rot. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
2-Propanol	2700	3600	6500	8800
cis-1,2-Dichloroethene	660	5200	2600	21000
Trichforoethene	660	110000	3600	570000
Toluene	660	1300	2500	4900

Client Sample ID: SVE 101 INF

Lab ID#: 0601038-01A

Compound	File Name:	1010612.			
Compound (ppbv) (ppbv) (uG/m3) (uG/m3) Freon 12 100 Not Detected 490 Not Detected Freon 114 100 Not Detected 700 Not Detected Freon 114 100 Not Detected 830 Not Detected S30 Not Detected S40 260	DIL Factor				I/E/OE OF 24 FM
Compound (ppbv) (ppbv) (uc/m3) (uc/m3) Freon 12 100 Not Detected 490 Not Detected Precon 114 100 Not Detected 490 Not Detected Precon 114 100 Not Detected 830 Not Detected Chloromethane 400 Not Detected 830 Not Detected Precon 100 260 260 Not Detected Precon 110 100 Not Detected Precon 110 Not Detected Precon 111 100 Not Detected Precon 111 100 Not Detected Precon 113		Rnt. Limit	Amount	Rpt. Limit	Amount
Freon 12 100 Not Detected 490 Not Detected Freon 114 100 Not Detected 700 Not Detected Not Detected R30 Not Detected R30 <t< th=""><th>Compound</th><th></th><th></th><th>(uG/m3)</th><th>(uG/m3)</th></t<>	Compound			(uG/m3)	(uG/m3)
Freen 114			Not Detected	490	Not Detected
Chloromethane			Not Detected	700	Not Detected
Vinyl Chloride 100 100 260 280 1.3-Butadiene 100 Not Detected 220 Not Detected Bromomethane 100 Not Detected 390 Not Detected Chloroethane 100 Not Detected 560 Not Detected Freon 11 100 Not Detected 560 Not Detected Ethanol 400 Not Detected 770 Not Detected Freon 113 100 Not Detected 470 Not Detected 1,1-Dichloroethene 400 Not Detected 490 Not Detected Acetone 400 Not Detected 950 Not Detected Carbon Disulfide 100 Not Detected 310 Not Detected Carbon Disulfide 100 Not Detected 310 Not Detected 3-Chicropropene 400 Not Detected 310 Not Detected Methylene Chloride 100 Not Detected 360 Not Detected Methylene Chloride 100 Not Detected			Not Detected	830	Not Detected
100			100	260	260
Romomethane	•		Not Detected	220	Not Detected
Chiloroethane			Not Detected	390	Not Detected
Treen 17				260	Not Detected
Ethanol 400 Not Detected 750 Not Detected Freon 113 100 Not Detected 7770 Not Detected 7770 Not Detected 71,1-Dichloroethene 100 Not Detected 400 Not Detected 400 Not Detected 950 Not Detected 950 Not Detected 2-Propanol 400 Not Detected 950 Not Detected 2-Propanol 400 Not Detected 950 Not Detected 2-Propanol 400 Not Detected 950 Not Detected 3-Carbon Disulfide 100 Not Detected 310 Not Detected 3-Carbon Disulfide 100 Not Detected 350 Not Detected 3-Carbon Disulfide 100 Not Detected 350 Not Detected 3-Carbon Disulfide 100 Not Detected 350 Not Detected 4-Carbon 100 Not Detected 350 Not Detected 1,1,1-Trichloroethane 100 Not Detected 350 Not De				560	Not Detected
Not Detected 100				750	Not Detected
1,1-Dichloroethene		· ·		770	Not Detected
1,1-Dichloroethene					Not Detected
2-Propanol	,			950	Not Detected
Carbon Disulfide 100 Not Detected 310 Not Detected 3-Chloropropene 400 Not Detected 1200 Not Detected Methylene Chloride 100 Not Detected 350 Not Detected Methyl tert-butyl ether 100 Not Detected 360 Not Detected Hexane 100 Not Detected 400 Not Detected Hexane 100 Not Detected 350 Not Detected 1,1-Dichloroethane 100 Not Detected 400 Not Detected 2-Butanone (Methyl Ethyl Ketone) 100 Not Detected 290 Not Detected 2-Butanone (Methyl Ethyl Ketone) 100 Not Detected 290 Not Detected 2-Butanone (Methyl Ethyl Ketone) 100 Not Detected 290 Not Detected 2-Butanone (Methyl Ethyl Ketone) 100 Not Detected 290 Not Detected 2-Butanone (Methyl Ethyl Ketone) 100 Not Detected 290 Not Detected 2-Butanone (Methyl Ethyl Ketone) 100 Not Detected				980	Not Detected
Not Detected 1200				310	Not Detected
Not Detected Not					Not Detected
Methyl tert-butyl ether Methyl Ethyl Methyl Methyl Ethyl Methyl Methy					Not Detected
Metryl terr-buyl terre 100	-				Not Detected
Not Detected Not					Not Detected
Hexane			****		
1,1-Dichloroethane					
2-Butanone (Methyl Ethyl Retone) cis-1,2-Dichloroethene 100 6300 400 25000 Tetrahydrofuran 100 Not Detected 490 Not Detected Chloroform 100 Not Detected 490 Not Detected 1,1,1-Trichloroethane 100 Not Detected 540 Not Detected Cyclohexane Cyclohexane 100 Not Detected 340 Not Detected Carbon Tetrachloride 100 Not Detected 630 Not Detected Carbon Tetrachloride 100 Not Detected 470 Not Detected 2,2,4-Trimethylpentane 100 Not Detected 320 Not Detected 1,2-Dichloroethane 100 Not Detected 400 Not Detected 1,2-Dichloroethane 100 Not Detected 400 Not Detected Trichloroethene 100 Not Detected 460 Not Detected 1,4-Dioxane 400 Not Detected 460 Not Detected 1,4-Dioxane 400 Not Detected 460 Not Detected 1,4-Dioxane 400 Not Detected 450 Not Detected 4-Methyl-2-pentanone 100 Not Detected 450 Not Detected Toluene 100 Not Detected 450 Not Detected Toluene 100 Not Detected 450 Not Detected Tetrachloroethane 100 Not Detected 450 Not Detected Toluene 100 Not Detected 450 Not Detected Tetrachloroethane 100 Not Detected 450 Not Detected Toluene 100 Not Detected 450 Not Detected Tetrachloroethane 100 Not Detected 450 Not Detected Toluene 100 Not Detected 450 Not Detected Toluene 100 Not Detected 450 Not Detected Tetrachloroethane 100 Not Detected 450 Not Detected 1,2-Trichloroethane 100 Not Detected 450 Not Detected 1,2-Trichloroethane 100 Not Detected 450 Not Detected 1,2-Trichloroethane					
Tetrahydrofuran 100 Not Detected 290 Not Detected Chloroform 100 Not Detected 490 Not Detected 1,1,1-Trichloroethane 100 Not Detected 540 Not Detected Cyclohexane 100 Not Detected 630 Not Detected Carbon Tetrachloride 100 Not Detected 630 Not Detected 2,2,4-Trimethylpentane 100 Not Detected 470 Not Detected 2,2,4-Trimethylpentane 100 Not Detected 320 Not Detected 8enzene 100 Not Detected 320 Not Detected 1,2-Dichloroethane 100 Not Detected 400 Not Detected 1,2-Dichloroethane 100 Not Detected 400 Not Detected 1,2-Dichloroethane 100 Not Detected 410 Not Detected 1,2-Dichloropropane 100 Not Detected 460 Not Detected 1,4-Dioxane 400 Not Detected 1400 Not Detected 1,4-Dioxane 400 Not Detected 670 Not Detected 1,4-Dioxane 100 Not Detected 670 Not Detected 1,3-Dichloropropene 100 Not Detected 450 Not Detected 100 Not	• -				***************************************
Tetranydroturan					
Chloroform 1,1,1-Trichloroethane 100 Not Detected 540 Not Detected Cyclohexane 100 Not Detected 340 Not Detected Carbon Tetrachloride 100 Not Detected 630 Not Detected 2,2,4-Trimethylpentane 100 Not Detected 320 Not Detected 320 Not Detected 1,2-Dichloroethane 100 Not Detected 470 Not Detected 1,2-Dichloroethane 100 Not Detected 400 Not Detected 1,2-Dichloropropane 100 Not Detected 410 Not Detected 1,2-Dichloropropane 100 Not Detected 460 Not Detected 1,4-Dioxane 100 Not Detected 1400 Not Detected 1570					
Cyclohexane 100 Not Detected 340 Not Detected Carbon Tetrachloride 100 Not Detected 630 Not Detected 2,2,4-Trimethylpentane 100 Not Detected 470 Not Detected 2,2,4-Trimethylpentane 100 Not Detected 320 Not Detected 1,2-Dichloroethane 100 Not Detected 400 Not Detected 1,2-Dichloroethane 100 Not Detected 400 Not Detected 1,2-Dichloroethane 100 Not Detected 410 Not Detected 1,2-Dichloropropane 100 Not Detected 460 Not Detected 1,2-Dichloropropane 100 Not Detected 460 Not Detected 1,4-Dioxane 400 Not Detected 1400 Not Detected 1,4-Dioxane 400 Not Detected 1400 Not Detected 1,4-Dioxane 100 Not Detected 670 Not Detected 1,3-Dichloropropene 100 Not Detected 450 Not Detected 14-Methyl-2-pentanone 100 Not Detected 450 Not Detected 150 N					
Cyclohexane Carbon Tetrachloride Carbon Tetrachloride 100 Not Detected 470 Not Detected 2,2,4-Trimethylpentane 100 Not Detected 320 Not Detected 1,2-Dichloroethane 100 Not Detected 400 Not Detected 1,2-Dichloroethane 100 Not Detected 400 Not Detected 410 Not Detected 410 Not Detected 410 Trichloroethene 100 20000 540 110000 1,2-Dichloropropane 100 Not Detected 460 Not Detected 1,4-Dioxane 400 Not Detected 460 Not Detected 1,4-Dioxane 400 Not Detected 400 Not De	1,1,1-Trichloroethane				
Carbon Tetrachloride 2,2,4-Trimethylpentane 100 Not Detected 320 Not Detected 1,2-Dichloroethane 100 Not Detected 470 Not Detected 320 Not Detected 1,2-Dichloroethane 100 Not Detected 400 Not Detected 400 Not Detected 410 Not Detected 410 Not Detected 410 Trichloroethene 100 100 Not Detected 460 Not Detected 1,4-Dioxane 100 Not Detected 460 Not Detected 1,4-Dioxane 400 Not Detected 460 Not Detected	Cyclohexane		* *	= = = = = = = = = = = = = = = = = = =	
2,2,4-Trimethylpentane Benzene 100 Not Detected 320 Not Detected 1,2-Dichloroethane 100 Not Detected 400 Not Detected 400 Not Detected 410 Not Detected 410 Not Detected 410 Trichloroethene 100 Total Detected 460 Total Dete	Carbon Tetrachloride				
Benzene 100 Not Detected 400 Not Detected 1,2-Dichloroethane 100 Not Detected 410 Not Detected 460 Not Detected 1,2-Dichloropropane 100 Not Detected 460 Not Detected 1,4-Dioxane 400 Not Detected 1400 Not Detected 470 Not Detected 670 Not Detected 4-Methyl-2-pentanone 100 Not Detected 450 Not Detected 4-Methyl-2-pentanone 100 Not Detected 380 Not Detected 450 No	2,2,4-Trimethylpentane				
1,2-Dichloroethane 100 Not Detected 410 Not Detected 110000 Not Detected 410 Not Detected 110000 1,2-Dichloropropane 100 Not Detected 460 Not Detected 1,4-Dioxane 400 Not Detected 1400 Not Detected 1,4-Dioxane 100 Not Detected 670 Not Detected	Benzene				• - •
Trichloroethene 100 20000 540 110000 Trichloroethene 100 Not Detected 460 Not Detected 1,2-Dichloropropane 100 Not Detected 1400 Not Detected 1,4-Dioxane 400 Not Detected 1400 Not Detected 1400 Not Detected 1500 Not Detected 1400 Not Detected 1500 Not Detected 150	1,2-Dichloroethane				<u>, , ,</u>
Trichloroethene 1,2-Dichloropropane 1,00 Not Detected 1,4-Dioxane 1,4-Dioxane 100 Not Detected 1400 Not Detected	Heptane				
1,2-Dichloropropane 1,4-Dioxane 400 Not Detected 1400 Not Detected 1400 Not Detected 670 Not Detected 450 Not Detected 450 Not Detected 410 Not Detected 410 Not Detected 410 Not Detected 450 Not Detected 1,1,2-Trichloroethane 100 Not Detected 540 Not Detected 1,1,2-Trichloroethane 100 Not Detected 680 Not Detected	Trichloroethene				
1,4-Dioxane Bromodichloromethane 100 Not Detected 670 Not Detected cis-1,3-Dichloropropene 100 Not Detected 450 Not Detected 450 Not Detected 450 Not Detected 410 Not Detected 450 Not Detected	1,2-Dichloropropane				
Bromodichloromethane 100 Not Detected 450 Not Detected 450 And Detected 440 Not Detected 44	1,4-Dioxane				
4-Methyl-2-pentanone 100 Not Detected 410 Not Detected Toluene 100 Not Detected 380 Not Detected trans-1,3-Dichloropropene 100 Not Detected 450 Not Detected 1,1,2-Trichloroethane 100 Not Detected 540 Not Detected Tetrachloroethene 100 Not Detected 680 Not Detected Tetrachloroethene 100 Not Detected 1,00 Not Detected	Bromodichloromethane				
4-Metryl-2-pentanone 100 Not Detected 380 Not Detected trans-1,3-Dichloropropene 100 Not Detected 450 Not Detected 1,1,2-Trichloroethane 100 Not Detected 540 Not Detected Tetrachloroethene 100 Not Detected 680 Not Detected Tetrachloroethene 100 Not Detected 1600 N	cis-1,3-Dichloropropene				
trans-1,3-Dichloropropene 100 Not Detected 450 Not Detected 1,1,2-Trichloroethane 100 Not Detected 540 Not Detected Tetrachloroethene 100 Not Detected 680 Not Detected 100 Not	4-Methyl-2-pentanone				
trans-1,3-Dichloroproperie 100 Not Detected 540 Not Detected 1,1,2-Trichloroethane 100 Not Detected 580 Not Detected Tetrachloroethane 100 Not Detected 680 Not Detected 1600	Toluene	100			
1,1,2-Trichloroethane 100 Not Detected 540 Not Detected Tetrachloroethene 100 Not Detected 680 Not Detected	trans-1,3-Dichloropropene	100			
Tetrachloroethene 100 Not Detected 680 Not Detected 1600 Not Detected 1600 Not Detected	1,1,2-Trichloroethane	100			
400 Not Detected 1600 Not Detected	Tetrachloroethene	100	Not Detected		
	2-Hexanone	400	Not Detected	1600	Not Detected

Client Sample ID: SVE 101 INF Lab ID#: 0601038-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name 5	010812		ate of Collection	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	100	Not Detected	850	Not Detected
1,2-Dibromoethane (EDB)	100	Not Detected	770	Not Detected
Chlorobenzene	100	Not Detected	460	Not Detected
Ethyl Benzene	100	Not Detected	430	Not Detected
m,p-Xylene	100	Not Detected	430	Not Detected
o-Xylene	100	Not Detected	430	Not Detected
Styrene	100	Not Detected	420	Not Detected
Bromoform	100	Not Detected	1000	Not Detected
Cumene	100	Not Detected	490	Not Detected
1,1,2,2-Tetrachloroethane	100	Not Detected	690	Not Detected
Propylbenzene	100	Not Detected	490	Not Detected
4-Ethyltoluene	100	Not Detected	490	Not Detected
4-Ethyllordene 1,3,5-Trimethylbenzene	100	Not Detected	490	Not Detected
1,2,4-Trimethylbenzene	100	Not Detected	490	Not Detected
1,2,4-Trifflethylberizene 1,3-Dichlorobenzene	100	Not Detected	600	Not Detected
 	100	Not Detected	600	Not Detected
1,4-Dichlorobenzene	100	Not Detected	520	Not Detected
alpha-Chlorotoluene	100	Not Detected	600	Not Detected
1,2-Dichlorobenzene	400	Not Detected	3000	Not Detected
1,2,4-Trichlorobenzene Hexachlorobutadiene	400	Not Detected	4300	Not Detected

Container Type: 1 Liter Tedlar Bag

Container Type: 1 Liter rediar Bag		Method
Surrogates	%Recovery	Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	93	70-130

Client Sample ID: SVE201 INF Lab ID#: 0601038-02A

	HED EPA METHOI	TO-15 GC/MS FULL		
File Name;	0 (10:14) - 1 (20 1)			
	Rot. Limit	Amount	Rpt. Limit	Amount (uG/m3)
Compound	(ppbv)	(ppbv)	(uG/m3)	
Freon 12	660	Not Detected	3300	Not Detected
Freon 114	660	Not Detected	4600	Not Detected
Chloromethane	2700	Not Detected	5500	Not Detected
/inyl Chloride	660	Not Detected	1700	Not Detected
1,3-Butadiene	660	Not Detected	1500	Not Detected
Bromomethane	660	Not Detected	2600	Not Detected
Chloroethane	660	Not Detected	1800	Not Detected
Freon 11	660	Not Detected	3700	Not Detected
Ethanol	2700	Not Detected	5000	Not Detected
reon 113	660	Not Detected	5100	Not Detected
,1-Dichloroethene	680	Not Detected	2600	Not Detected
Acetone	2700	Not Detected	6300	Not Detected
!-Propanol	2700	5000	6500	12000
Carbon Disulfide	660	Not Detected	2100	Not Detected
3-Chloropropene	2700	Not Detected	8300	Not Detected
Methylene Chloride	660	Not Detected	2300	Not Detected
Methyl tert-butyl ether	660	Not Detected	2400	Not Detected
rans-1,2-Dichloroethene	660	Not Detected	2600	Not Detected
Hexane	660	Not Detected	2300	Not Detected
1,1-Dichloroethane	660	Not Detected	2700	Not Detected
2-Butanone (Methyl Ethyl Ketone)	660	Not Detected	2000	Not Detected
cis-1,2-Dichloroethene	660	5800	2600	23000
Tetrahydrofuran	660	Not Detected	2000	Not Detected
Chloroform	660	Not Detected	3200	Not Detected
1,1,1-Trichloroethane	660	Not Detected	3600	Not Detected
Cyclohexane	660	Not Detected	2300	Not Detected
Carbon Tetrachloride	660	Not Detected	4200	Not Detected
2,2,4-Trimethylpentane	660	Not Detected	3100	Not Detected
Benzene	660	Not Detected	2100	Not Detected
1,2-Dichloroethane	660	Not Detected	2700	Not Detected
leptane	660	Not Detected	2700	Not Detected
Trichloroethene	660	170000	3600	920000
1,2-Dichloropropane	660	Not Detected	3100	Not Detected
1,4-Dioxane	2700	Not Detected	9600	Not Detected
Bromodichloromethane	660	Not Detected	4400	Not Detected
cis-1,3-Dichloropropene	660	Not Detected	3000	Not Detected
4-Methyl-2-pentanone	660	Not Detected	2700	Not Detected
Toluene	660	1400	2500	5100
trans-1,3-Dichloropropene	660	Not Detected	3000	Not Detected
1,1,2-Trichloroethane	660	Not Detected	3600	Not Detected
Tetrachloroethene	660	Not Detected	4500	Not Detected
2-Hexanone	2700	Not Detected	11000	Not Detected

Client Sample ID: SVE201 INF Lab ID#: 0601038-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	: 1010815. S		ក្នុងស្វីទាំ គ្រាប់តែ	
DIL Factors	180			150608-CUPMEN
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	660	Not Detected	5700	Not Detected
1,2-Dibromoethane (EDB)	660	Not Detected	5100	Not Detected
Chlorobenzene	660	Not Detected	3100	Not Detected
Ethyl Benzene	660	Not Detected	2900	Not Detected
m,p-Xylene	660	Not Detected	2900	Not Detected
o-Xylene	660	Not Detected	2900	Not Detected
Styrene	660	Not Detected	2800	Not Detected
Bromoform	660	Not Detected	6900	Not Detected
Cumene	660	Not Detected	3300	Not Detected
1,1,2,2-Tetrachloroethane	660	Not Detected	4600	Not Detected
	660	Not Detected	3300	Not Detected
Propylbenzene	660	Not Detected	3300	Not Detected
4-Ethyltoluene	660	Not Detected	3300	Not Detected
1,3,5-Trimethylbenzene	660	Not Detected	3300	Not Detected
1,2,4-Trimethylbenzene	660	Not Detected	4000	Not Detected
1,3-Dichlorobenzene	660	Not Detected	4000	Not Detected
1,4-Dichlorobenzene	660	Not Detected	3400	Not Detected
alpha-Chlorotoluene	660	Not Detected	4000	Not Detected
1,2-Dichlorobenzene	2700	Not Detected	20000	Not Detected
1,2,4-Trichlorobenzene	2700 2700	Not Detected	28000	Not Detected
Hexachlorobutadiene	2/00	MAI DEIERIER	2000	

Container Type: 1 Liter Tediar Bag

Container Type: 1 Liter regiar bag		Method
Surrogates	%Recovery	Limits
Toluene-d8	99	70-130
1.2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	98	70-130

Client Sample ID: SVE COMBINED INF

Lab ID#: 0601038-03A

MODI) TO-15 GC/MS FULL	A PLANTAGE BY SECTION AND AND AND ADDRESS.	ATTACK TANKS
File Name:	1010514 T 1. 1330 F		Date of Callettion Cale of Analysis	
Compound	Rot, Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	660	Not Detected	3300	Not Detected
Freon 114	660	Not Detected	4600	Not Detected
Chloromethane	2700	Not Detected	5500	Not Detected
Vinyl Chloride	660	Not Detected	1700	Not Detected
1,3-Butadiene	660	Not Detected	1500	Not Detected
Bromomethane	660	Not Detected	2600	Not Detected
Chloroethane	660	Not Detected	1800	Not Detected
Freon 11	660	Not Detected	3700	Not Detected
Ethanol	2700	Not Detected	5000	Not Detected
Freon 113	660	Not Detected	5100	Not Detected
1,1-Dichloroethene	660	Not Detected	2600	Not Detected
Acetone	2700	Not Detected	6300	Not Detected
2-Propanol	2700	3600	6500	8800
Carbon Disulfide	660	Not Detected	2100	Not Detected
3-Chloropropene	2700	Not Detected	8300	Not Detected
Methylene Chloride	660	Not Detected	2300	Not Detected
Methyl tert-butyl ether	660	Not Detected	2400	Not Detected
trans-1,2-Dichloroethene	660	Not Detected	2600	Not Detected
Hexane	660	Not Detected	2300	Not Detected
1,1-Dichloroethane	660	Not Detected	2700	Not Detected
2-Butanone (Methyl Ethyl Ketone)	660	Not Detected	2000	Not Detected
cis-1,2-Dichloroethene	660	5200	2600	21000
Tetrahydrofuran	660	Not Detected	2000	Not Detected
Chloroform	660	Not Detected	3200	Not Detected
1,1,1-Trichloroethane	660	Not Detected	3600	Not Detected
Cyclohexane	660	Not Detected	2300	Not Detected
Carbon Tetrachloride	660	Not Detected	4200	Not Detected
2,2,4-Trimethylpentane	660	Not Detected	3100	Not Detected
Benzene	660	Not Detected	2100	Not Detected
1,2-Dichloroethane	660	Not Detected	2700	Not Detected
Heptane	660	Not Detected	2700	Not Detected
Trichloroethene	660	110000	3600	570000
1,2-Dichloropropane	660	Not Detected	3100	Not Detected
1,4-Dioxane	2700	Not Detected	9600	Not Detected
Bromodichloromethane	660	Not Detected	4400	Not Detected
cis-1,3-Dichloropropene	660	Not Detected	3000	Not Detected
4-Methyl-2-pentanone	660	Not Detected	2700	Not Detected
Toluene	660	1300	2500	4900
trans-1,3-Dichloropropene	660	Not Detected	3000	Not Detected
1,1,2-Trichloroethane	660	Not Detected	3600	Not Detected
Tetrachloroethene	660	Not Detected	4500	Not Detected
2-Hexanone	2700	Not Detected	11000	Not Detected

Client Sample ID: SVE COMBINED INF

Lab ID#: 0601038-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Names	(P1051) 1300		a w of collections	
Compound	Rot. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	660	Not Detected	5700	Not Detected
1,2-Dibromoethane (EDB)	660	Not Detected	5100	Not Detected
Chlorobenzene	660	Not Detected	3100	Not Detected
Ethyl Benzene	660	Not Detected	2900	Not Detected
m,p-Xylene	660	Not Detected	2900	Not Detected
o-Xylene	660	Not Detected	2900	Not Detected
Styrene	660	Not Detected	2800	Not Detected
Bromoform	660	Not Detected	6900	Not Detected
Cumene	660	Not Detected	3300	Not Detected
1,1,2,2-Tetrachloroethane	660	Not Detected	4600	Not Detected
Propylbenzene	660	Not Detected	3300	Not Detected
4-Ethyltoluene	660	Not Detected	3300	Not Detected
1,3,5-Trimethylbenzene	660	Not Detected	3300	Not Detected
1,2,4-Trimethylbenzene	660	Not Detected	3300	Not Detected
1,3-Dichlorobenzene	660	Not Detected	4000	Not Detected
1,4-Dichlorobenzene	660	Not Detected	4000	Not Detected
alpha-Chlorotoluene	660	Not Detected	3400	Not Detected
1,2-Dichlorobenzene	660	Not Detected	4000	Not Detected
1,2,4-Trichlorobenzene	2700	Not Detected	20000	Not Detected
Hexachlorobutadiene	2700	Not Detected	28000	Not Detected
Container Type: 1 Liter Tedlar Bag				Method
Surrogates		%Recovery		Limits
Toluene-d8		95		70-130
1,2-Dichloroethane-d4		104		70-130
1,E Didition Contains CT		404		70 130

101

4-Bromofluorobenzene

70-130



2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

January 20, 2006

Client:

SAS Environmental Inc. (3403)

1270 S.Clevleand-Massillon Building A

Akron, OH 44321

Attn:

SVE EFF

Mark V. Allen

Work Order:

NPA2057

Project Name:

UT Collierville

01/18/06 18:45

Project Nbr:

031091

Date Received: 01/19/06

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
SVE 101 INF	NPA2057-01	01/18/06 19:05
SVE 201 INF	NPA2057-02	01/18/06 19:00
SVE COMBINED INF	NPA2057-03	01/18/06 18:55
SVE INT	NPA2057-04	01/18/06 18:50

NPA2057-05

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accredidation.

This material is intended only for the use of the individual(s) or entity to whom it is addressed, and may contain information that is ivileged and confidential. If you are not the intended recipient, or the employee or agent responsible for delivering this material to the .tended recipient, you are hereby notified that any dissemination, distribution, or copying of this material is strictly prohibited. If you have received this material in error, please notify us immediately at 615-726-0177.

Tennessee Certification Number: 02008

The Chain(s) of Custody, 24 pages, are included and are an integral part of this report.

These results relate only to the items tested. This report shall not be reproduced except in full and with permission of the laboratory. Report Approved By:

Jessica Vickers

Senior Project Manager

Dorca G. Ouchers



2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client SAS Environmental Inc. (3403)

1270 S.Clevleand-Massillon Building A

Akron, OH 44321

Attn Mark V. Allen Work Order:

NPA2057

Project Name:

UT Collierville

Project Number: 031091

Received:

01/19/06 08:30

ANALYTICAL REPORT

Dilution Analysis

Inalyte

Result

Flag

Units

MRL

Factor Date/Time

Method

Batch

ample ID: NPA2057-01 (SVE 101 INF - Air) Sampled: 01/18/06 19:05

Subcontracted Analysis

ee Attached Report

ample ID: NPA2057-02 (SVE 201 INF - Air) Sampled: 01/18/06 19:00

lubcontracted Analysis e Attached Report

ample ID: NPA2057-03 (SVE COMBINED INF - Air) Sampled: 01/18/06 18:55

ubcontracted Analysis e Attached Report

ample ID: NPA2057-04 (SVE INT - Air) Sampled: 01/18/06 18:50

uh intracted Analysis

Æ, :hed Report

ample ID: NPA2057-05 (SVE EFF - Air) Sampled: 01/18/06 18:45

ubcontracted Analysis e Attached Report



ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client SAS Environmental Inc. (3403)

1270 S.Clevleand-Massillon Building A

Akron, OH 44321

Attn Mark V. Allen

Work Order:

NPA2057

Project Name:

UT Collierville

Project Number: 031091

Received:

01/19/06 08:30

CERTIFICATION SUMMARY

estAmerica Analytical - Nashville

Method Matrix AIHA Nelac Tennessee subcontract Air

SUBCONTRACT ORDER

TestAmerica Analytical - Nashville

NPA2057

SENDING LABORATORY:

TestAmerica Analytical - Nashville 2960 Foster Creighton Road

Nashville, TN 37204 Phone: 800-765-0980 Fax: 615-726-3404

Kenyatta D. Thompson Project Manager:

RECEIVING LABORATORY:

Air Toxics LTD (11938) 180-B Blue Ravine Road Folsom, CA 95630 Phone: (800) 985-5955

Fax: (916) 985-1020

Shipped directly to Air Toxics 0601329

		Sis

Due

Expires

Comments

Sample ID: NPA2057-01

Air

Sampled: 01/18/06 19:05

01/21/06 19:05

Modified TO-15 VOCs

Containers Supplied:

Tedlar Bag 1L (A)

Tedlar Bag 1L (B)

Sample ID: NPA2057-02

Air

Sampled: 01/18/06 19:00

01/21/06 19:00

Volatile Organics in Air by TO-01/23/06 15:00 Containers Supplied:

'edlar Bag 1L (A)

Tedlar Bag 1L (B)

Modified TO-15 VOCs

Sample ID: NPA2057-03

Air

Sampled: 01/18/06 18:55

Volatile Organics in Air by TO-01/23/06 15:00

01/21/06 18:55

Modified TO-15 VOCs

Containers Supplied:

Tedlar Bag 1L (A)

Tedlar Bag 1L (B)

Sample ID: NPA2057-04

Air

Sampled: 01/18/06 18:50

01/21/06 18:50

Modified TO-15 VOCs

Containers Supplied:

Tedlar Bag 1L (A)

Tedlar Bag 1L (B)

Sample ID: NPA2057-05

Air

Sampled: 01/18/06 18:45

01/21/06 18:45

Modified TO-15 VOCs

Containers Supplied:

Tedlar Bag 1L (A)

Tedlar Bag 1L (B)



NPA2057

Received By

Date

Released By

Date

Received By

Date

Nachville Division Phone: 615-726-0177 2950 Foster Creighton Fex: 615-726-3404 Neshville, TN 37204

To assist us in using the proper analytical methods, is this work being consucted for regulatory purposes? Compliance Monitoring

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	Project Manager:		irr S).	, =n										8	ite/Loca	tion ID:	Doc	41090	VILLE			State: 770		
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Air Toxics Ltd. Introduces the Electronic Report

Thank you for choosing Air Toxics Ltd. To better serve our customers, we are providing your report by e-mail. This document is provided in Portable Document Format which can be viewed with Acrobat Reader by Adobe.

This electronic report includes the following:

- Work order Summary;
- · Laboratory Narrative;
- · Results; and
- · Chain of Custody (copy).

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 06

0601329

Work Order Summary

CLIENT:

Ms. Kenyatta Thompson

BILL TO:

Ms. Kenyatta Thompson

Test America

Test America

2960 Foster Creighton Dr.

2960 Foster Creighton Dr.

Nashville, TN 37204

Nashville, TN 37204

PHONE:

800-765-0980

P.O. # 7608

FAX:

615-726-3404

PROJECT# NPA2057

DATE RECEIVED: DATE COMPLETED: 01/19/2006 01/20/2006

CONTACT:

Susan Alaniz

FRACTION#	NAME
01A	NPA2057-01
02A	NPA2057-02
03A	NPA2057-03
04A	NPA2057-04
05A	NPA2057-05
06A	Lab Blank
07A	CCV
08A	LCS

	RECEIPT
TEST	VAC./PRES.
Modified TO-15	Tedlar Bag
Modified TO-15	NA
Modified TO-15	NA
Modified TO-15	NA

CERTIFIED BY:

Christa d. Francesco

01/20/06

Laboratory Director

Certification numbers: AR DEQ - 03-084-0, CA NELAP - 02110CA, LA NELAP- AI 30763, NJ NELAP - CA004 NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/05, Expiration date: 06/30/06

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE Modified TO-15

Test America Workorder# 0601329

Five 1 Liter Tedlar Bag samples were received on January 19, 2006. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

Method modifications taken to run these samples are summarized in the below table. Specific project requirements may over-ride the ATL modifications.

Requirement	TO-15	ATL Modifications
Daily CCV	+- 30% Difference	= 30% Difference with two allowed out up to </=40%.;<br flag and narrate outliers
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The reported LCS for each daily batch has been derived from more than one analytical file.

All Quality Control Limit failures and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page. Target compound non-detects in the samples that are associated with high bias in QC analyses have not been flagged.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit (background subtraction no performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated peak.
 - Q Exceeds quality control limits.
 - U Compound analyzed for but not detected above the reporting limit.
 - UJ- Non-detected compound associated with low bias in the CCV
 - N The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

Summary of Detected Compounds MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: NPA2057-01

Lab ID#: 0601329-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
cis-1,2-Dichloroethene	10	560	40	2200
Trichloroethene	10	1500	54	8000

Client Sample ID: NPA2057-02

Lab ID#: 0601329-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
2-Propanol	1600	2100	3900	5100
cis-1,2-Dichloroethene	400	4400	1600	17000
Trichloroethene	400	120000	2100	660000

Client Sample ID: NPA2057-03

Lab ID#: 0601329-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
2-Propanol	1000	1800	2400	4500
cis-1,2-Dichloroethene	250	3900	990	15000
Trichloroethene	250	74000	1300	400000

Client Sample ID: NPA2057-01

Lab ID#: 0601329-01A

File Name: Dil. Factor	011928 ·	Date of Collection: 1/48/06 Date of Analysis: 1/20/06.06:30 AM		
Compound	Røt, Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	10	Not Detected	49	Not Detected
Freon 114	10	Not Detected	70	Not Detected
Chloromethane	40	Not Detected	83	Not Detected
/inyl Chloride	10	Not Detected	26	Not Detected
,3-Butadiene	10	Not Detected	22	Not Detected
Bromomethane	10	Not Detected	39	Not Detected
Chloroethane	10	Not Detected	26	Not Detected
reon 11	10	Not Detected	56	Not Detected
Ethanol	40	Not Detected	75	Not Detected
reon 113	10	Not Detected	77	Not Detected
,1-Dichloroethene	10	Not Detected	40	Not Detected
Acetone	40	Not Detected	95	Not Detected
2-Propanol	40	Not Detected	98	Not Detected
Carbon Disulfide	10	Not Detected	31	Not Detected
-Chloropropene	40	Not Detected	120	Not Detected
Methylene Chloride	10	Not Detected	35	Not Detected
Nethyl tert-butyl ether	10	Not Detected	36	Not Detected
rans-1,2-Dichloroethene	10	Not Detected	40	Not Detected
lexane	10	Not Detected	35	Not Detected
,1-Dichloroethane	10	Not Detected	40	Not Detected
-Butanone (Methyl Ethyl Ketone)	10	Not Detected	29	Not Detected
is-1,2-Dichloroethene	10	560	40	2200
etrahydrofuran	10	Not Detected	29	Not Detected
Chloroform	10	Not Detected	49	Not Detected
,1,1-Trichloroethane	10	Not Detected	54	Not Detected
yclohexane	10	Not Detected	34	Not Detected
Carbon Tetrachloride	10	Not Detected	63	Not Detected
,2,4-Trimethylpentane	10	Not Detected	47	Not Detected
enzene	10	Not Detected	32	Not Detected
,2-Dichloroethane	10	Not Detected	40	Not Detected
leptane	10	Not Detected	41	Not Detected
richloroethene	10	1500	54	8000
,2-Dichloropropane	10	Not Detected	46	Not Detected
,4-Dioxane	40	Not Detected	140	Not Detected
romodichloromethane	10	Not Detected	67	Not Detected
is-1,3-Dichloropropene	10	Not Detected	45	Not Detected
-Methyl-2-pentanone	10	Not Detected	41	Not Detected
oluene	10	Not Detected	38	Not Detected
rans-1,3-Dichloropropene	10	Not Detected	45	Not Detected
,1,2-Trichloroethane	10	Not Detected	54	Not Detected
etrachloroethene	10	Not Detected	68	Not Detected
-Hexanone	40	Not Detected	160	Not Detected

Client Sample ID: NPA2057-01 Lab ID#: 0601329-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name: J011928 Date of Collection: 1/18/06
Dil. Factor: Date of Analysis: 1/20/06 06:30 AM
Dil. Factor: Date of Analysis: 1/20/06 06:30 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	10	Not Detected	85	Not Detected
1,2-Dibromoethane (EDB)	10	Not Detected	77	Not Detected
Chlorobenzene	10	Not Detected	46	Not Detected
Ethyl Benzene	10	Not Detected	43	Not Detected
m,p-Xylene	10	Not Detected	43	Not Detected
o-Xylene	10	Not Detected	43	Not Detected
Styrene	10	Not Detected	42	Not Detected
Bromoform	10	Not Detected	100	Not Detected
Cumene	10	Not Detected	49	Not Detected
1,1,2,2-Tetrachloroethane	10	Not Detected	69	Not Detected
Propylbenzene	10	Not Detected	49	Not Detected
4-Ethyltoluene	10	Not Detected	49	Not Detected
1,3,5-Trimethylbenzene	10	Not Detected	49	Not Detected
1,2,4-Trimethylbenzene	10	Not Detected	49	Not Detected
1,3-Dichlorobenzene	10	Not Detected	60	Not Detected
1,4-Dichlarobenzene	10	Not Detected	60	Not Detected
aipha-Chlorotoluene	10	Not Detected	52	Not Detected
1,2-Dichlorobenzene	10	Not Detected	60	Not Detected
1,2,4-Trichlorobenzene	40	Not Detected	300	Not Detected
Hexachlorobutadiene	40	Not Detected	430	Not Detected

Container Type: 1 Liter Tedlar Bag

		Method		
Surrogates	%Recovery	Limits		
Toluene-d8	92	70-130		
1,2-Dichloroethane-d4	97	70-130		
4-Bromofluorobenzene	101	70-130		

Client Sample ID: NPA2057-02

Lab ID#: 0601329-02A

File Name; Dil; Factor;	1011925 Date of Collection 800 Date of Analysis:			1	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)	
Freon 12	400	Not Detected	2000	Not Detected	
Freon 114	400	Not Detected	2800	Not Detected	
Chloromethane	1600	Not Detected	3300	Not Detected	
Vlnyl Chloride	400	Not Detected	1000	Not Detected	
1,3-Butadiene	400	Not Detected	880	Not Detected	
Bromomethane	400	Not Detected	1600	Not Detected	
Chloroethane	400	Not Detected	1000	Not Detected	
Freon 11	400	Not Detected	2200	Not Detected	
Ethanol	1600	Not Detected	3000	Not Detected	
Freon 113	400	Not Detected	3100	Not Detected	
1,1-Dichloroethene	400	Not Detected	1600	Not Detected	
Acetone	1600	Not Detected	3800	Not Detected	
2-Propanol	1600	2100	3900	5100	
Carbon Disulfide	400	Not Detected	1200	Not Detected	
3-Chloropropene	1600	Not Detected	5000	Not Detected	
Methylene Chloride	400	Not Detected	1400	Not Detected	
Methyl tert-butyl ether	400	Not Detected	1400	Not Detected	
trans-1,2-Dichloroethene	400	Not Detected	1600	Not Detected	
Hexane	400	Not Detected	1400	Not Detected	
1,1-Dichloroethane	400	Not Detected	1600	Not Detected	
2-Butanone (Methyl Ethyl Ketone)	400	Not Detected	1200	Not Detected	
cis-1,2-Dichloroethene	400	4400	1600	17000	
Tetrahydrofuran	400	Not Detected	1200	Not Detected	
Chloroform	400	Not Detected	2000	Not Detected	
1,1,1-Trichloroethane	400	Not Detected	2200	Not Detected	
Cyclohexane	400	Not Detected	1400	Not Detected	
Carbon Tetrachloride	400	Not Detected	2500	Not Detected	
2,2,4-Trimethylpentane	400	Not Detected	1900	Not Detected	
Benzene	400	Not Detected	1300	Not Detected	
1,2-Dichloroethane	400	Not Detected	1600	Not Detected	
Heptane	400	Not Detected	1600	Not Detected	
Trichloroethene	400	120000	2100	660000	
1,2-Dichloropropane	400	Not Detected	1800	Not Detected	
1,4-Dioxane	1600	Not Detected	5800	Not Detected	
Bromodichloromethane	400	Not Detected	2700	Not Detected	
cis-1,3-Dichloropropene	400	Not Detected	1800	Not Detected	
4-Methyl-2-pentanone	400	Not Detected	1600	Not Detected	
Toluene	400	Not Detected	1500	Not Detected	
trans-1,3-Dichloropropene	400	Not Detected	1800	Not Detected	
1,1,2-Trichloroethane	400	Not Detected	2200	Not Detected	
Tetrachloroethene	400	Not Detected	2700	Not Detected	
2-Hexanone	1600	Not Detected	6600	Not Detected	

Client Sample ID: NPA2057-02 Lab ID#: 0601329-02A

File Name:	1011925 800		Date of Collection: 1/18/06 Date of Analysis: 1/20/06 04:32 AM	
DIL Factor:				
Compound	Rot. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	400	Not Detected	3400	Not Detected
1,2-Dibromoethane (EDB)	400	Not Detected	3100	Not Detected
Chlorobenzene	400	Not Detected	1800	Not Detected
Ethyl Benzene	400	Not Detected	1700	Not Detected
m,p-Xylene	400	Not Detected	1700	Not Detected
o-Xylene	400	Not Detected	1700	Not Detected
Styrene	400	Not Detected	1700	Not Detected
Bromoform	400	Not Detected	4100	Not Detected
Cumene	400	Not Detected	2000	Not Detected
1.1.2.2-Tetrachloroethane	400	Not Detected	2700	Not Detected
Propylbenzene	400	Not Detected	2000	Not Detected
4-Ethyltoluene	400	Not Detected	2000	Not Detected
1,3,5-Trimethylbenzene	400	Not Detected	2000	Not Detected
1,2,4-Trimethylbenzene	400	Not Detected	2000	Not Detected
1,3-Dichlorobenzene	400	Not Detected	2400	Not Detected
1,4-Dichlorobenzene	400	Not Detected	2400	Not Detected
alpha-Chlorotoluene	400	Not Detected	2100	Not Detected
1.2-Dichlorobenzene	400	Not Detected	2400	Not Detected
1,2,4-Trichlorobenzene	1600	Not Detected	12000	Not Detected
Hexachlorobutadiene	1600	Not Detected	17000	Not Detected
Container Type: 1 Liter Tedlar Bag				
Surrogates		%Recovery_		Method Limits
Toluene-d8		97		70-130
1.2-Dichloroethane-d4		99		70-130
4-Bromofluorobenzene		92		70-130

Client Sample ID: NPA2057-03

Lab ID#: 0601329-03A

File Name:	1011927		Date of Collection: 1/18/06		
DIL Factor:	590		Date of Analysis: 1	/20/06 05:51 AM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)	
Freon 12	250	Not Detected	1200	Not Detected	
Freon 114	250	Not Detected	1700	Not Detected	
Chloromethane	1000	Not Detected	2100	Not Detected	
Vinyl Chloride	250	Not Detected	640	Not Detected	
1,3-Butadiene	250	Not Detected	550	Not Detected	
Bromomethane	250	Not Detected	970	Not Detected	
Chloroethane	250	Not Detected	660	Not Detected	
Freon 11 .	250	Not Detected	1400	Not Detected	
Ethanol	1000	Not Detected	1900	Not Detected	
Erreon 113	250	Not Detected	1900	Not Detected	
	250	Not Detected	990	Not Detected	
1,1-Dichloroethene	1000	Not Detected	2400	Not Detected	
Acetone	1000	1800	2400	4500	
2-Propanol	250	Not Detected	780	Not Detecte	
Carbon Disulfide	1000	Not Detected	3100	Not Detected	
3-Chloropropene	250	Not Detected	870	Not Detected	
Methylene Chloride	250	Not Detected	900	Not Detected	
Methyl tert-butyl ether	250	Not Detected	990	Not Detecte	
rans-1,2-Dichloroethene	250	Not Detected	880	Not Detecte	
Hexane	250	Not Detected	1000	Not Detecte	
1,1-Dichloroethane		Not Detected	740	Not Detecte	
2-Butanone (Methyl Ethyl Ketone)	250	3900	990	15000	
cis-1,2-Dichloroethene	250	Not Detected	740	Not Detecte	
Tetrahydrofuran	250		1200	Not Detecte	
Chloroform	250	Not Detected	1400	Not Detecte	
1,1,1-Trichloroethane	250	Not Detected	860	Not Detecte	
Cyclohexane	250	Not Detected	1600	Not Detecte	
Carbon Tetrachloride	250	Not Detected	1200	Not Detecte	
2,2,4-Trimethylpentane	250	Not Detected	800	Not Detecte	
Benzene	250	Not Detected	1000	Not Detecte	
1,2-Dichloroethane	250	Not Detected	1000	Not Detecte	
Heptane	250	Not Detected		400000	
Trichloroethene	250	74000	1300	Not Detecte	
1,2-Dichloropropane	250	Not Detected	1200	Not Detecte	
1,4-Dioxane	1000	Not Detected	3600		
Bromodichloromethane	250	Not Detected	1700	Not Detecte	
cis-1,3-Dichloropropene	250	Not Detected	1100	Not Detected	
4-Methyl-2-pentanone	250	Not Detected	1000	Not Detecte	
Toluene	250	Not Detected	940	Not Detected	
trans-1,3-Dichloropropene	250	Not Detected	1100	Not Detected	
1,1,2-Trichloroethane	250	Not Detected	1400	Not Detected	
Tetrachloroethene	250	Not Detected	1700	Not Detected	
2-Hexanone	1000	Not Detected	4100	Not Detected	

Client Sample ID: NPA2057-03

Lab ID#: 0601329-03A MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Date of Collection: 1/18/06

1200

1500

1500

1300

1500

7400

11000

Not Detected

Dil. Factor:	500		Date of Analysis: 1/20/06 05:51 AM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)	
Dibromochloromethane	250	Not Detected	2100	Not Detected	
1,2-Dibromoethane (EDB)	250	Not Detected	1900	Not Detected	
Chlorobenzene	250	Not Detected	1200	Not Detected	
	250	Not Detected	1100	Not Detected	
Ethyl Benzene	250	Not Detected	1100	Not Detected	
m,p-Xylene	250	Not Detected	1100	Not Detected	
o-Xylene Sturana	250	Not Detected	1100	Not Detected	
Styrene Bromoform	250	Not Detected	2600	Not Detected	
Cumene	250	Not Detected	1200	Not Detected	
1,1,2,2-Tetrachloroethane	250	Not Detected	1700	Not Detected	
	250	Not Detected	1200	Not Detected	
Propylbenzene	250	Not Detected	1200	Not Detected	
4-Ethyltoluene	250	Not Detected	1200	Not Detected	
1,3,5-Trimethylbenzene	2.50		4200	Not Detected	

250

250

250

250

250

1000

1000

Not Detected

1,2,4-Trimethylbenzene

1,3-Dichlorobenzene

1,4-Dichlorobenzene

alpha-Chlorotoluene

1,2-Dichlorobenzene

1,2,4-Trichlorobenzene

Hexachlorobutadiene

Container Type: 1 Liter Tedial Bag		Method
Surrogates	%Recovery	Limits
Toluene-d8	96	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	99	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0602144

Work Order Summary

CLIENT:

Mr. Mark Allen

BILL TO: Mr. Mark Allen

SAS Environmental

SAS Environmental

Akron, OH 44321

1270 S. Cleveland Massillon Road

1270 S. Cleveland Massillon Road

Bldg.A

Bldg.A

Akron, OH 44321

7608 P.O. #

Modified TO-15

PHONE: FAX:

330-666-1546 330-666-7443

031091 UT Collierville

NA

DATE RECEIVED:

02/07/2006

PROJECT # CONTACT:

Susan Alaniz

DATE COMPLETED:

02/08/2006

LCS

RECEIPT FRACTION# **NAME** TEST VAC/PRES. 01A SVE 101 INF (SP101) Modified TO-15 Tedlar Bag 02A SVE 201 INF (SP201) Modified TO-15 Tedlar Bag 03A SVE Combined INF (SP301) Modified TO-15 Tedlar Bag 04A SVE INT (SP302) Modified TO-15 Tedlar Bag 05A SVE EFF (SP303) Modified TO-15 Tedlar Bag 06A Lab Blank Modified TO-15 NA 07A CCV Modified TO-15 NA 08A

CERTIFIED BY:

waste of Freman

02/08/06 DATE:

Laboratory Director

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP - AI 30763, NJ NELAP - CA004 NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/05, Expiration date: 06/30/06

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE Modified TO-15 SAS Environmental Workorder# 0602144

Five 1 Liter Tedlar Bag samples were received on February 07, 2006. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

Method modifications taken to run these samples are summarized in the below table. Specific project requirements may over-ride the ATL modifications.

Requirement	TO-15	ATL Modifications
Daily CCV	+- 30% Difference	= 30% Difference with two allowed out up to </=40%.;<br flag and narrate outliers
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

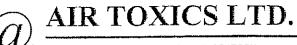
The reported LCS for each daily batch has been derived from more than one analytical file.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit (background subtraction no performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated peak.
 - Q Exceeds quality control limits.
 - U Compound analyzed for but not detected above the reporting limit.
 - UJ- Non-detected compound associated with low bias in the CCV
 - N The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:



a-File was requantified b-File was quantified by a second column and detector r1-File was requantified for the purpose of reissue



Summary of Detected Compounds MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SVE 101 INF (SP101)

Lab ID#: 0602144-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyi Chloride	28	73	73	190
trans-1.2-Dichloroethene	28	34	110	140
cis-1,2-Dichloroethene	28	2800	110	11000
Trichloroethene	28	6700	150	36000

Client Sample ID: SVE 201 INF (SP201)

Lab ID#: 0602144-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Arnount (uG/m3)
cis-1,2-Dichloroethene	660	4000	2600	16000
Trichloroethene	660	140000	3600	750000

Client Sample ID: SVE Combined INF (SP301)

Lab ID#: 0602144-03A

Compound	Røt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Arnount (u G/m3)
2-Propanol	1300	2800	3300	6900
cis-1,2-Dichloroethene	330	3000	1300	1 2000
Trichloroethene	330	82000	1800	440000



Client Sample ID: SVE 101 INF (SP101)

Lab ID#: 0602144-01A

File Name: Dil. Factor:	1020708 57.1		Date of Collection: Date of Analysis: 2	
	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(ppbv)	(uG/m3)	(uG/m3)
Freon 12	28	Not Detected	140	Not Detected
Freon 114	28	Not Detected	200	Not Detected
Chloromethane	110	Not Detected	240	Not Detected
Vinyl Chloride	28	73	73	190
1,3-Butadiene	28	Not Detected	63	Not Detected
Bromomethane	28	Not Detected	110	Not Detected
Chloroethane	28	Not Detected	75	Not Detected
Freon 11	28	Not Detected	160	Not Detected
Ethanol	110	Not Detected	220	Not Detected
Freon 113	28	Not Detected	220	Not Detected
1,1-Dichloroethene	28	Not Detected	110	Not Detected
Acetone	110	Not Detected	270	Not Detected
2-Propanol	110	Not Detected	280	Not Detected
Carbon Disulfide	28	Not Detected	89	Not Detected
3-Chloropropene	110	Not Detected	360	Not Detected
Methylene Chloride	28	Not Detected	99	Not Detected
•	28	Not Detected	100	Not Detected
Methyl tert-butyl ether trans-1,2-Dichloroethene	28	34	110	140
Hexane	28	Not Detected	100	Not Detected
nexane 1,1-Dichloroethane	28	Not Detected	120	Not Detected
2-Butanone (Methyl Ethyl Ketone)	28	Not Detected	84	Not Detected
	28	2800	110	11000
cis-1,2-Dichloroethene	28	Not Detected	84	Not Detected
Tetrahydrofuran Chloroform	28	Not Detected	140	Not Detected
	28	Not Detected	160	Not Detected
1,1,1-Trichloroethane	28	Not Detected	98	Not Detected
Cyclohexane	28	Not Detected	180	Not Detected
Carbon Tetrachloride	28	Not Detected	130	Not Detected
2,2,4-Trimethylpentane	28	Not Detected	91	Not Detected
Benzene	28	Not Detected	120	Not Detected
1,2-Dichloroethane	28	Not Detected	120	Not Detected
Heptane Talahlara athara	28	6700	150	36000
Trichloroethene	28	Not Detected	130	Not Detected
1,2-Dichloropropane	110	Not Detected	410	Not Detected
1,4-Dioxane	28	Not Detected	190	Not Detected
Bromodichloromethane		Not Detected	130	Not Detected
cis-1,3-Dichloropropene	28	Not Detected	120	Not Detected
4-Methyl-2-pentanone	28		110	Not Detected
Toluene	28	Not Detected	130	Not Detected
trans-1,3-Dichloropropene 1,1,2-Trichloroethane	28 28	Not Detected Not Detected	160	Not Detected



Client Sample ID: SVE 101 INF (SP101)

Lab ID#: 0602144-01A

File Name: Dil. Factor:	1020708 57.1		Date of Collection: Date of Analysis: 2	1.355 Y Not 114 AM 1 4 M
	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(ppbv)	(uG/m3)	(uG/m3)
Tetrachloroethene	28	Not Detected	190	Not Detected
2-Hexanone	110	Not Detected	470	Not Detected
Dibromochloromethane	28	Not Detected	240	Not Detected
1,2-Dibromoethane (EDB)	28	Not Detected	220	Not Detected
Chlorobenzene	28	Not Detected	130	Not Detected
Ethyl Benzene	28	Not Detected	120	Not Detected
m,p-Xylene	28	Not Detected	120	Not Detected
o-Xylene	28	Not Detected	120	Not Detected
Styrene	28	Not Detected	120	Not Detected
Bromoform	28	Not Detected	300	Not Detected
Cumene	28	Not Detected	140	Not Detected
1,1,2,2-Tetrachloroethane	28	Not Detected	200	Not Detected
Propylbenzene	28	Not Detected	140	Not Detected
4-Ethyltoluene	28	Not Detected	140	Not Detected
1,3,5-Trimethylbenzene	28	Not Detected	140	Not Detected
1,2,4-Trimethylbenzene	28	Not Detected	140	Not Detected
1,3-Dichlorobenzene	28	Not Detected	170	Not Detected
1,4-Dichlorobenzene	28	Not Detected	170	Not Detected
alpha-Chlorotoluene	28	Not Detected	150	Not Detected
1,2-Dichlorobenzene	28	Not Detected	170	Not Detected
1,2,4-Trichlorobenzene	110	Not Detected	850	Not Detected
Hexachlorobutadiene	110	Not Detected	1200	Not Detected
Container Type: 1 Liter Tedlar B	ag	0.4 50		Method
Surrogates		%Recovery		Limits
Toluene-d8		105		70-130

		Menou
Surrogates	%Recovery	Limits
Toluene-d8	105	70-130
1,2-Dichloroethane-d4	107	70-130
4-Bromofluorobenzene	106	70-130



Client Sample ID: SVE 201 INF (SP201)

Lab ID#: 0602144-02A

File Name:	1020709 1330		Date of Collection: Date of Analysis: 2	
	Rpt. Limit	Amount	Rpt. Limit	Amount
Compared	(ppbv)	(ppbv)	(uG/m3)	(uG/m3)
Compound	660	Not Detected	3300	Not Detected
Freon 12	660	Not Detected	4600	Not Detected
Freon 114	2700	Not Detected	5500	Not Detected
Chloromethane	660	Not Detected	1700	Not Detected
Vinyl Chloride	660	Not Detected	1500	Not Detected
1,3-Butadiene	660	Not Detected	2600	Not Detected
Bromomethane	660	Not Detected	1800	Not Detected
Chloroethane	660	Not Detected	3700	Not Detected
Freon 11	2700	Not Detected	5000	Not Detected
Ethanol	660	Not Detected	5100	Not Detected
Freon 113	660	Not Detected	2600	Not Detected
1,1-Dichloroethene	2700	Not Detected	6300	Not Detected
Acetone	2700	Not Detected	6500	Not Detected
2-Propanol	660	Not Detected	2100	Not Detected
Carbon Disulfide	2700	Not Detected	8300	Not Detected
3-Chloropropene	660	Not Detected	2300	Not Detected
Methylene Chloride	660	Not Detected	2400	Not Detected
Methyl tert-butyl ether	660	Not Detected	2600	Not Detected
trans-1,2-Dichloroethene	660	Not Detected	2300	Not Detected
Hexane	660	Not Detected	2700	Not Detected
1,1-Dichloroethane		Not Detected	2000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	660	4000	2600	16000
cis-1,2-Dichloroethene	660	Not Detected	2000	Not Detected
Tetrahydrofuran	660	Not Detected	3200	Not Detected
Chloreform	660	Not Detected	3600	Not Detected
1,1,1-Trichloroethane	660	Not Detected	2300	Not Detected
Cyclohexane	660	Not Detected	4200	Not Detected
Carbon Tetrachloride	660	Not Detected	3100	Not Detected
2,2,4-Trimethylpentane	660	Not Detected	2100	Not Detected
Benzene	· 660	Not Detected	2700	Not Detected
1,2-Dichloroethane	660		2700	Not Detected
Heptane	660	Not Detected	3600	75 0000
Trichloroethene	660	140000	3100	Not Detected
1,2-Dichloropropane	660	Not Detected	9600	Not Detected
1,4-Dioxane	2700	Not Detected	4400	Not Detected
Bromodichloromethane	660	Not Detected		Not Detected
cis-1,3-Dichloropropene	660	Not Detected	3000	Not Detected
4-Methyl-2-pentanone	660	Not Detected	2700	Not Detected
Toluene	660	Not Detected	2500	Not Detected
trans-1,3-Dichloropropene	660	Not Detected	3000	Not Detected
1,1,2-Trichloroethane	660	Not Detected	3600	Mor Defected



Client Sample ID: SVE 201 INF (SP201)

Lab 1D#: 0602144-02A

File Name: Dil. Factor:	1020709 1330		Date of Collection: Date of Analysis: 2	
	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(ppbv)	(uG/m3)	(uG/m3)
Tetrachioroethene	660	Not Detected	4500	Not Detected
2-Hexanone	2700	Not Detected	11000	Not Detected
Dibromochloromethane	660	Not Detected	5700	Not Detected
1,2-Dibromoethane (EDB)	660	Not Detected	5100	Not Detected
Chlorobenzene	660	Not Detected	3100	Not Detected
Ethyl Benzene	660	Not Detected	2900	Not Detected
m,p-Xylene	660	Not Detected	2900	Not Detected
o-Xylene	660	Not Detected	2900	Not Detected
Styrene	660	Not Detected	2800	Not Detected
Bromoform	660	Not Detected	6900	Not Detected
Cumene	660	Not Detected	3300	Not Detected
1.1.2.2-Tetrachloroethane	660	Not Detected	4600	Not Detected
Propylbenzene	660	Not Detected	3300	Not Detected
4-Ethyltoluene	660	Not Detected	3300	Not Detected
1,3,5-Trimethylbenzene	660	Not Detected	3300	Not Detected
1,2,4-Trimethylbenzene	660	Not Detected	3300	Not Detected
1.3-Dichlorobenzene	660	Not Detected	4000	Not Detected
1,4-Dichlorobenzene	660	Not Detected	4000	Not Detected
alpha-Chlorotoluene	660	Not Detected	3400	Not Detected
1.2-Dichlorobenzene	660	Not Detected	4000	Not Detected
1.2.4-Trichlorobenzene	2700	Not Detected	20000	Not Detected
Hexachlorobutadiene	2700	Not Detected	28000	Not Detected
Container Type: 1 Liter Tedlar Bag		%Recovery		Method Limits
Surrogates				70-130
Toluene-d8		104		70-130 70-130
1,2-Dichloroethane-d4		108		70-130 70-130

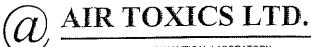
Surrogates	%Recovery	Limits
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	108	70-130
4-Bromofluorohenzene	105	70-130



Client Sample ID: SVE Combined INF (SP301)

Lab ID#: 0602144-03A

File Name: Dil. Factor:			Date of Collection: 2/6/06 Date of Analysis: 2/7/06 04:53 PM	
	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(ppbv)	(uG/m3)	(uG/m3)
Freon 12	330	Not Detected	1600	Not Detected
Freon 114	330	Not Detected	2300	Not Detected
Chloromethane	1300	Not Detected	2800	Not Detected
Vinyl Chloride	330	Not Detected	850	Not Detected
1,3-Butadiene	330	Not Detected	740	Not Detected
Bromomethane	330	Not Detected	1300	Not Detected
Chloroethane	330	Not Detected	880	Not Detected
Freon 11	330	Not Detected	1900	Not Detected
Ethanol	1300	Not Detected	2500	Not Detected
Freon 113	330	Not Detected	2600	Not Detected
1,1-Dichloroethene	330	Not Detected	1300	Not Detected
Acetone	1300	Not Detected	3200	Not Detected
Acetorie 2-Propanol	1300	2800	3300	6900
z-Fropanoi Carbon Disulfide	330	Not Detected	1000	Not Detected
	1300	Not Detected	4200	Not Detected
3-Chloropropene Methylene Chloride	330	Not Detected	1200	Not Detected
•	330	Not Detected	1200	Not Detected
Methyl tert-butyl ether trans-1,2-Dichloroethene	330	Not Detected	1300	Not Detected
Hexane	330	Not Detected	1200	Not Detected
1,1-Dichloroethane	330	Not Detected	1300	Not Detected
2-Butanone (Methyl Ethyl Ketone)	330	Not Detected	980	Not Detected
cis-1,2-Dichloroethene	330	3000	1300	12000
	330	Not Detected	980	Not Detected
Tetrahydrofuran Chloroform	330	Not Detected	1600	Not Detected
	330	Not Detected	1800	Not Detected
1,1,1-Trichloroethane	330	Not Detected	1100	Not Detected
Cyclohexane Carbon Tetrachloride	330	Not Detected	2100	Not Detected
	330	Not Detected	1600	Not Detected
2,2,4-Trimethylpentane Benzene	330	Not Detected	1100	Not Detected
1,2-Dichloroethane	330	Not Detected	1300	Not Detected
······································	330	Not Detected	1400	Not Detected
Heptane	330	82000	1800	440000
Trichloroethene	330	Not Detected	1500	Not Detected
1,2-Dichloropropane	1300	Not Detected	4800	Not Detected
1,4-Dioxane	330	Not Detected	2200	Not Detected
Bromodichloromethane	330	Not Detected	1500	Not Detected
cis-1,3-Dichloropropene	330	Not Detected	1400	Not Detected
4-Methyl-2-pentanone	330	Not Detected	1200	Not Detected
Toluene	330	Not Detected	1500	Not Detected
trans-1,3-Dichloropropene 1,1,2-Trichloroethane	330	Not Detected	1800	Not Detected



Client Sample ID: SVE Combined INF (SP301)

Lab ID#: 0602144-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name: Dil. Factor:	1020710 667		Date of Collection:	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Tetrachloroethene	330	Not Detected	2300	Not Detected
2-Hexanone	1300	Not Detected	5500	Not Detected
Dibromochloromethane	330	Not Detected	2800	Not Detected
1,2-Dibromoethane (EDB)	330	Not Detected	2600	Not Detected
Chlorobenzene	330	Not Detected	1500	Not Detected
Ethyl Benzene	330	Not Detected	1400	Not Detected
m,p-Xylene	330	Not Detected	1400	Not Detected
o-Xylene	330	Not Detected	1400	Not Detected
Styrene	330	Not Detected	1400	Not Detected
Bromoform	330	Not Detected	3400	Not Detected
Cumene	330	Not Detected	1600	Not Detected
1,1,2,2-Tetrachloroethane	330	Not Detected	2300	Not Detected
Propylbenzene	330	Not Detected	1600	Not Detected
4-Ethyltoluene	330	Not Detected	1600	Not Detected
1,3,5-Trimethylbenzene	330	Not Detected	1600	Not Detected
1.2.4-Trimethylbenzene	330	Not Detected	1600	Not Detected
1,3-Dichlorobenzene	330	Not Detected	2000	Not Detected
1,4-Dichlorobenzene	330	Not Detected	2000	Not Detected
alpha-Chiorotoluene	330	Not Detected	1700	Not Detected
1,2-Dichlorobenzene	330	Not Detected	2000	Not Detected
1,2,4-Trichlorobenzene	1300	Not Detected	9900	Not Detected
Hexachlorobutadiene	1300	Not Detected	14000	Not Detected

Container Type: 1 Liter Tedlar Bag

Container Type, I Liter Fedial Dag			Method
Surrogates	%Recovery		Limits
Toluene-d8	104		70-130
1,2-Dichloroethane-d4	108		70-130
4-Bromofluorobenzene	108	•	70-130

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WORK ORDER #: 0602345

Work Order Summary

CLIENT:

Mr. Mark Allen

SAS Environmental

1270 S. Cleveland Massillon Road

Bldg.A

Akron, OH 44321

PHONE:

FAX:

330-666-1546

330-666-7443

DATE RECEIVED:

02/15/2006 03/01/2006

DATE COMPLETED:

BILL TO: Mr. Mark Allen

SAS Environmental

1270 S. Cleveland Massillon Road

Bldg.A

Akron, OH 44321

7608 P.O. #

PROJECT#

031091 UT Collierville

CONTACT:

Susan Alaniz

			RECEIPT
FRACTION#	NAME	TEST	VAC./PRES.
01A	SVE Combined INF (SP301)	Modified TO-15	Tedlar Bag
02A	SVE INT (SP302)	Modified TO-15	Tedlar Bag
03A	Lab Blank	Modified TO-15	NA
04A	CCV	Modified TO-15	NA
05A	LCS	Modified TO-15	NA

CERTIFIED BY:

03/01/06 DATE:

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004 NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/05, Expiration date: 06/30/06

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

LABORATORY NARRATIVE Modified TO-15

SAS Environmental Workorder# 0602345

Two 1 Liter Tedlar Bag samples were received on February 15, 2006. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

Method modifications taken to run these samples are summarized in the below table. Specific project requirements may over-ride the ATL modifications.

Requirement	TO-15	ATL Modifications
Daily CCV	+- 30% Difference	= 30% Difference with two allowed out up to </=40%.;<br flag and narrate outliers
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The reported LCS for each daily batch has been derived from more than one analytical file.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit (background subtraction no performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated peak.
 - Q Exceeds quality control limits.
 - U Compound analyzed for but not detected above the reporting limit.
 - UJ- Non-detected compound associated with low bias in the CCV
 - N The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

- a-File was requantified
- b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

Summary of Detected Compounds MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SVE Combined INF (SP301)

Lab ID#: 0602345-01A

Compound	Røt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
cis-1,2-Dichloroethene	330	2300	1300	9000
Trichloroethene	330	60000	1800	320000

Client Sample ID: SVE Combined INF (SP301)

Lab ID#: 0602345-01A

File Name:	8021627		Date of Collection:	and the second second second second
Dil. Factor:	667		Date of Analysis: 2	77706 09:09 AW
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	330	Not Detected	1600	Not Detected
Freon 114	330	Not Detected	2300	Not Detected
Chloromethane	1300	Not Detected	2800	Not Detected
	330	Not Detected	850	Not Detected
Vinyl Chloride	330	Not Detected	740	Not Detected
1,3-Butadiene Bromomethane	330	Not Detected	1300	Not Detected
	330	Not Detected	880	Not Detected
Chloroethane	330	Not Detected	1900	Not Detected
Freon 11	1300	Not Detected	2500	Not Detected
Ethanol	330	Not Detected	2600	Not Detected
Freon 113	330	Not Detected	1300	Not Detected
1,1-Dichloroethene	1300	Not Detected	3200	Not Detected
Acetone	1300	Not Detected	3300	Not Detected
2-Propanol	330	Not Detected	1000	Not Detected
Carbon Disulfide	1300	Not Detected	4200	Not Detected
3-Chloropropene	330	Not Detected	1200	Not Detected
Methylene Chloride		Not Detected	1200	Not Detected
Methyl tert-butyl ether	330	Not Detected	1300	Not Detected
trans-1,2-Dichloroethene	330	Not Detected	1200	Not Detected
Hexane	330 330	Not Detected	1300	Not Detected
1,1-Dichloroethane			980	Not Detected
2-Butanone (Methyl Ethyl Ketone)	330	Not Detected	1300	9000
cis-1,2-Dichloroethene	330	2300	980	Not Detected
Tetrahydrofuran	330	Not Detected	1600	Not Detected
Chloroform	330	Not Detected	1800	Not Detected
1,1,1-Trichloroethane	330	Not Detected	1100	Not Detected
Cyclohexane	330	Not Detected	2100	Not Detected
Carbon Tetrachloride	330	Not Detected	1600	Not Detected
2,2,4-Trimethylpentane	330	Not Detected	1100	Not Detected
Benzene	330	Not Detected		Not Detected
1,2-Dichloroethane	330	Not Detected	1300	Not Detected
Heptane .	330	Not Detected	1400	·
Trichloroethene	330	60000	1800	320000 Not Detected
1,2-Dichloropropane	330	Not Detected	1500	Not Detected
1,4-Dioxane	1300	Not Detected	4800	
Bromodichloromethane	330	Not Detected	2200	Not Detected
cis-1,3-Dichloropropene	330	Not Detected	1500	Not Detected
4-Methyl-2-pentanone	330	Not Detected	1400	Not Detected
Toluene	330	Not Detected	1200	Not Detected
trans-1,3-Dichloropropene	330	Not Detected	1500	Not Detected
1,1,2-Trichloroethane	330	Not Detected	1800	Not Detected
Tetrachloroethene	330	Not Detected	2300	Not Detected
2-Hexanone	1300	Not Detected	5500	Not Detected

Client Sample ID: SVE Combined INF (SP301)

Lab ID#: 0602345-01A

File Name:	8021627		Date of Collection:	
Dil. Factor:	667		Date of Analysis: 2	17/06 09:09 AM
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	330	Not Detected	2800	Not Detected
1,2-Dibromoethane (EDB)	330	Not Detected	2600	Not Detected
Chlorobenzene	330	Not Detected	1500	Not Detected
Ethyl Benzene	330	Not Detected	1400	Not Detected
m,p-Xylene	330	Not Detected	1400	Not Detected
o-Xylene	330	Not Detected	1400	Not Detected
Styrene	330	Not Detected	1400	Not Detected
Bromoform	330	Not Detected	3400	Not Detected
Cumene	330	Not Detected	1600	Not Detected
1.1.2.2-Tetrachloroethane	330	Not Detected	2300	Not Detected
Propylbenzene	330	Not Detected	1600	Not Detected
4-Ethyltoluene	330	Not Detected	1600	Not Detected
1,3,5-Trimethylbenzene	330	Not Detected	1600	Not Detected
1,2,4-Trimethylbenzene	330	Not Detected	1600	Not Detected
1,3-Dichlorobenzene	330	Not Detected	2000	Not Detected
1.4-Dichlorobenzene	330	Not Detected	2000	Not Detected
alpha-Chlorotoluene	330	Not Detected	1700	Not Detected
1,2-Dichlorobenzene	330	Not Detected	2000	Not Detected
1,2,4-Trichlorobenzene	1300	Not Detected	9900	Not Detected
Hexachlorobutadiene	1300	Not Detected	14000	Not Detected
Container Type: 1 Liter Tedlar Bag				Method
Surrogates		%Recovery		Limits
Toluene-d8		100		70-130
1,2-Dichloroethane-d4		107		70-130
4-Bromofluorobenzene		103		70-130

1.	
Test American Testing Corporation	
Client Name	SAS ET
Address:	1270
City/State/Zip Code:	April
Project Manager.	MAR
Telephone Number.	
Sampler Name: (Print Name)	
Sampler Signature:	
TAT Y Standard Rush (surcharges may apply)	
Date Needed:	
Fax Results: N	mpled

Nashville Division 2960 Foster Creighton Nashville, TN 37204

Phone: 615-726-0177 Fax: 615-726-3404

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes? Compliance Monitoring

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City	State/Zip Code:								***************************************				M2-7				Proj	ect#:	831	1091					
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FUGEX: 853055772066

0602468 WORK ORDER #:

Work Order Summary

CLIENT:

Mr. Mark Allen

BILL TO:

Mr. Mark Allen

SAS Environmental

SAS Environmental

1270 S. Cleveland Massillon Road

1270 S. Cleveland Massillon Road Bldg.A

Bldg.A

Akron, OH 44321

Akron, OH 44321

PHONE:

FAX:

330-666-1546

P.O.#

330-666-7443

PROJECT#

031091 UT Collierville

RECEIPT

DATE RECEIVED:

02/22/2006

CONTACT:

Susan Alaniz

7608

DATE COMPLETED: 03/03/2006

			KECEH I
FRACTION#	NAME	<u>TEST</u>	VAC./PRES.
1A	SVE Combined INF (SP301)	Modified TO-15	Tedlar Bag
02A	SVE INT (SP302)	Modified TO-15	Tedlar Bag
03A	Lab Blank	Modified TO-15	NA
04A	CCV	Modified TO-15	NA
05A	LCS	Modified TO-15	NA

CERTIFIED BY:

Sinola d. Fruman

03/03/06 DATE:

Laboratory Director

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004

NY NELAP - 11291, UT NELAP - 9166389892 Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,

Accreditation number: E87680, Effective date: 07/01/05, Expiration date: 06/30/06 Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.



LABORATORY NARRATIVE Modified TO-15 SAS Environmental Workorder# 0602468

Two 1 Liter Tedlar Bag samples were received on February 22, 2006. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

Method modifications taken to run these samples are summarized in the below table. Specific project requirements may over-ride the ATL modifications.

Requirement	TO-15	ATL Modifications							
Daily CCV	+- 30% Difference	= 30% Difference with two allowed out up to </=40%. flag and narrate outliers</p							
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request							
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases							

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The reported LCS for each daily batch has been derived from more than one analytical file.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated peak.
 - Q Exceeds quality control limits.
 - U Compound analyzed for but not detected above the reporting limit.
 - UJ- Non-detected compound associated with low bias in the CCV
 - N The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

- a-File was requantified
- b-File was quantified by a second column and detector
- r1-File was requantified for the purpose of reissue



Client Sample ID: SVE Combined INF (SP301)

Lab ID#: 0602468-01A

File Name: Dil. Factor:	f022414 400		Date of Collection: Date of Analysis: 2	
2 in Factor	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(vdqq)	(uG/m3)	(uG/m3)
Freon 12	200	Not Detected	990	Not Detected
Freon 114	200	Not Detected	1400	Not Detected
Chloromethane	800	Not Detected	1600	Not Detected
Vinyl Chloride	200	Not Detected	510	Not Detected
1,3-Butadiene	200	Not Detected	440	Not Detected
Bromomethane	200	Not Detected	780	Not Detected
Chloroethane	200	Not Detected	530	Not Detected
Freon 11	200	Not Detected	1100	Not Detected
Ethanol	800	Not Detected	1500	Not Detected
	200	Not Detected	1500	Not Detected
Freon 113 1,1-Dichloroethene	200	Not Detected	790	Not Detected
·	800	Not Detected	1900	Not Detected
Acetone	800	2300	2000	5600
2-Propanol	200	200	620	640
Carbon Disulfide	800	Not Detected	2500	Not Detected
3-Chloropropene	200	Not Detected	690	Not Detected
Methylene Chloride	200	Not Detected	720	Not Detected
Methyl tert-butyl ether	200	Not Detected	790	Not Detected
trans-1,2-Dichloroethene	200	Not Detected	700	Not Detected
Hexane	200	Not Detected	810	Not Detected
1,1-Dichloroethane	200	Not Detected	590	Not Detected
2-Butanone (Methyl Ethyl Ketone)	200	2000	790	7900
cis-1,2-Dichloroethene	200	Not Detected	590	Not Detected
Tetrahydrofuran	200	Not Detected	980	Not Detected
Chloroform	200	Not Detected	1100	Not Detected
1,1,1-Trichloroethane	200	Not Detected	690	Not Detected
Cyclohexane		Not Detected	1200	Not Detected
Carbon Tetrachloride	200	Not Detected	930	Not Detected
2,2,4-Trimethylpentane	200	Not Detected	640	Not Detected
Benzene	200	Not Detected	810	Not Detected
1,2-Dichloroethane	200		820	Not Detected
Heptane	200	Not Detected	1100	370000
Trichloroethene	200	69000	920	Not Detected
1,2-Dichloropropane	200	Not Detected	2900	Not Detected
1,4-Dioxane	800	Not Detected	1300	Not Detected
Bromodichloromethane	200	Not Detected	910	Not Detected
cis-1,3-Dichloropropene	200	Not Detected	820	Not Detected
4-Methyl-2-pentanone	200	Not Detected		Not Detected
Toluene	200	Not Detected	750	Not Detected
trans-1,3-Dichloropropene	200	Not Detected	910	Not Detected
1,1,2-Trichloroethane	200	Not Detected	1100	ואטו מפופטופט



Client Sample ID: SVE Combined INF (SP301)

Lab ID#: 0602468-01A

MODIFI	ED EPA METHOD	TO-15 GC/MS FU	ILL SCAN	serio della partificazioni
File Name: Dil. Factor:	f022414 400		Date of Collection: Date of Analysis:	2/21/06 2/24/06 06:51 PM
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Tetrachloroethene	200	Not Detected	1400	Not Detected
2-Hexanone	800	Not Detected	3300	Not Detected
z-nexanone Dibromochloromethane	200	Not Detected	170 0	Not Detected
1,2-Dibromoethane (EDB)	200	Not Detected	1500	Not Detected
r,z-Dibromoeulane (EDB) Chlorobenzene	200	Not Detected	920	Not Detected
	200	Not Detected	870	Not Detected
Ethyl Benzene	200	Not Detected	870	Not Detected
m,p-Xylene	200	Not Detected	870	Not Detected
o-Xylene	200	Not Detected	850	Not Detected
Styrene	200	Not Detected	2100	Not Detected
Bromoform	200	Not Detected	980	Not Detected
Cumene	200	Not Detected	1400	Not Detected
1,1,2,2-Tetrachloroethane	200	Not Detected	980	Not Detected
Propylbenzene	200	Not Detected	980	Not Detected
4-Ethyltoluene	200	Not Detected	980	Not Detected
1,3,5-Trimethylbenzene	200	Not Detected	980	Not Detected
1,2,4-Trimethylbenzene	200	Not Detected	1200	Not Detected
1,3-Dichlorobenzene	200	Not Detected	1200	Not Detected
1,4-Dichlorobenzene		Not Detected	1000	Not Detected
alpha-Chlorotoluene	200	Not Detected	1200	Not Detected
1,2-Dichlorobenzene	200	Not Detected	5900	Not Detected
1,2,4-Trichlorobenzene	800		8500	Not Detected
Hexachlorobutadiene	800	Not Detected	0000	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Container Type: 1 Liter Tedlar Bag				Method
Surrogates		%Recovery		Limits
		99		70-130
Toluene-d8		114	•	70-130
1,2-Dichloroethane-d4		105		70-130
4-Bromofluorobenzene				

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ANALYTICAL TESTING CORF	SAS	ENVIRG	MENT	AL I	NC.				C	ient	#:_		2403	_			•			_			
Address:	1270	s.ELE	VELAN	D-80	SSILLON	Ą								_	Project l	Name:	01	Coine	20144	5		400-1	
City/State/Zip Code:	AKRO	ik.			04		44	221							Pro	ject#:	0.	31091	<i>,</i>				
Project Manager:	MAR	K V, A	uer	/										_	Site/Locat	ion ID:	COL	uee	nue			State.	m
Telephone Number:	330-	-666-15	ήĘ				F	ax.			5, [306	667443		Rep	ort To:	MA	ree s	V. ALL	e de			
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Sampler Signature						****				-							0902					760	8
				_	Matrix	Pres	erva	tion	8.#o	f Cor	ntair	ers					ze For:						
X Standard X Standard Rush (surcharges may apply) Date Needed:			Composite		- Drinking Water ir S - Sol//Solid r Specity Other								D		$\int \int$								QC Oeliverables None Level 2 (Batch QC) Level 3
Fax Results: 🚫 N	Date Sampled	Time Sampled	G = Grab, C = C	Field Filtered	St Słudge DW GW - Groundwate WW - Wastewalex	-tNO ₃	(Ci	NaOH	45804	Methanol	None	Other (Spacify)	POLS										Level 4 Other:
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WORK ORDER #: 0603039

Work Order Summary

CLIENT:

Mr. Mark Allen

BILL TO: Mr. Mark Allen

SAS Environmental

SAS Environmental

1270 S. Cleveland Massillon Road

Bldg.A

Akron, OH 44321

1270 S. Cleveland Massillon Road

Bldg.A

7608

Akron, OH 44321

PHONE:

FAX:

330-666-1546

P.O. #

DATE RECEIVED:

330-666-7443 03/02/2006

PROJECT#

031091 UT Collierville

DATE COMPLETED:

03/03/2006

CONTACT:

Susan Alaniz

			RECEIPT
FRACTION#	<u>NAME</u>	TEST	VAC/PRES.
JIA	SVE Combined INF (SP301)	Modified TO-15	Tedlar Bag
02A	SVE INT (SP302)	Modified TO-15	Tedlar Bag
03A	Lab Blank	Modified TO-15	NA
04A	CCV	Modified TO-15	NA
05A	LCS	Modified TO-15	NA

CERTIFIED BY:

Senola S. Fruman

03/03/06 DATE:

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004 NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/05, Expiration date: 06/30/06

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

LABORATORY NARRATIVE Modified TO-15

SAS Environmental Workorder# 0603039

Two 1 Liter Tedlar Bag samples were received on March 02, 2006. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

Method modifications taken to run these samples are summarized in the below table. Specific project requirements may over-ride the ATL modifications.

Requirement TO-15		ATL Modifications				
Daily CCV	+- 30% Difference	<= 30% Difference with two allowed out up to <=40%.; flag and narrate outliers				
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request				
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases				

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

All Quality Control Limit failures and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page. Target compound non-detects in the samples that are associated with high bias in QC analyses have not been flagged.

The reported LCS for each daily batch has been derived from more than one analytical file.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated peak.
 - Q Exceeds quality control limits.
 - U Compound analyzed for but not detected above the reporting limit.
 - UJ- Non-detected compound associated with low bias in the CCV
 - N The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a Dila wan rannatified

b-File was quantified by a second column and detector r1-File was requantified for the purpose of reissue

Client Sample ID: SVE Combined INF (SP301)

Lab ID#: 0603039-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

1030214

File Name:

Date of Collection: 3/1/06

Dil. Factor:	500		Date of Analysis: 3/2/06 08:18 PM				
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)			
Freon 12	250	Not Detected	1200	Not Detected			
Freon 114	250	Not Detected	1700	Not Detected			
Chloromethane	1000	Not Detected	2100	Not Detected			
Vinyl Chloride	250	Not Detected	640	Not Detected			
1,3-Butadiene	250	Not Detected	550	Not Detected			
Bromomethane	250	Not Detected	970	Not Detected			
Chloroethane	250	Not Detected	660	Not Detected			
Freon 11	250	Not Detected	1400	Not Detected			
Ethanol	1000	Not Detected	1900	Not Detected			
Freon 113	250	Not Detected	1900	Not Detected			
1,1-Dichloroethene	250	Not Detected	990	Not Detected			
Acetone	1000	Not Detected	2400	Not Detected			
2-Propanol	1000	1300	2400	3200			
Carbon Disulfide	250	Not Detected	780	Not Detected			
3-Chloropropene	1000	Not Detected	3100	Not Detected			
Methylene Chloride	250	Not Detected	870	Not Detected			
Methyl tert-butyl ether	250	Not Detected	900	Not Detected			
trans-1,2-Dichloroethene	250	Not Detected	990	Not Detected			
Hexane	250	Not Detected	880	Not Detected			
1,1-Dichloroethane	250	Not Detected	1000	Not Detected			
2-Butanone (Methyl Ethyl Ketone)	250	Not Detected	740	Not Detected			
cis-1,2-Dichloroethene	250	1900	990	7600			
Tetrahydrofuran	250	Not Detected	740	Not Detected			
Chloroform	250	Not Detected	1200	Not Detected			
1,1,1-Trichloroethane	250	Not Detected	1400	Not Detected			
Cyclohexane	250	Not Detected	860	Not Detected			
Carbon Tetrachloride	250	Not Detected	1600	Not Detected			
2,2,4-Trimethylpentane	250	Not Detected	1200	Not Detected			
Benzene	250	Not Detected	800	Not Detected			
1,2-Dichloroethane	250	Not Detected	1000	Not Detected			
Heptane	250	Not Detected	1000	Not Detected			
Trichtoroethene	250	65000	1300	350000			
1,2-Dichloropropane	250	Not Detected	1200	Not Detected			
1,4-Dioxane	1000	Not Detected	3600	Not Detected			
Bromodichloromethane	250	Not Detected	1700	Not Detected			
cis-1,3-Dichloropropene	250	Not Detected	1100	Not Detected			
4-Methyl-2-pentanone	250	Not Detected	1000	Not Detected			
Toluene	250	660	940	2500			
trans-1,3-Dichloropropene	250	Not Detected	1100	Not Detected			
1,1,2-Trichloroethane	250	Not Detected	1400	Not Detected			
Tetrachloroethene	250	450	1700	3000			
2-Hexanone	1000	Not Detected	4100	Not Detected			
Z-176AdHUHE	. 555	2 3100100					

Client Sample ID: SVE Combined INF (SP301)

Lab ID#: 0603039-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	i030214 Date of Collection: 3/1/06	
Dil. Factor:	500 Date of Analysis: 3/2/06 08:18 PM	<u>.</u>

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	250	Not Detected	2100	Not Detected
1,2-Dibromoethane (EDB)	250	Not Detected	1900	Not Detected
Chlorobenzene	250	Not Detected	1200	Not Detected
Ethyl Benzene	250	Not Detected	1100	Not Detected
m,p-Xÿlene	250	770	1100	3300
o-Xylene	250	420	1100	1800
Styrene	250	Not Detected	1100	Not Detected
Bromoform	250	Not Detected	2600	Not Detected
Cumene	250	Not Detected	1200	Not Detected
1,1,2,2-Tetrachloroethane	250	Not Detected	1700	Not Detected
Propylbenzene	250	Not Detected	1200	Not Detected
4-Ethyltoluene	250	Not Detected	1200	Not Detected
1,3,5-Trimethylbenzene	250	Not Detected	1200	Not Detected
1,2,4-Trimethylbenzene	250	Not Detected	1200	Not Detected
1,3-Dichlorobenzene	250	Not Detected	1500	Not Detected
1,4-Dichlorobenzene	250	Not Detected	1500	Not Detected
alpha-Chlorotoluene	250	Not Detected	1300	Not Detected
1,2-Dichiorobenzene	250	Not Detected	1500	Not Detected
·	1000	Not Detected	7400	Not Detected
1,2,4-Trichlorobenzene Hexachlorobutadiene	1000	Not Detected	11000	Not Detected

Container Type: 1 Liter Tedlar Bag

Container Type, 1 Little 1 Cara. 1003		Method		
Surrogates	%Recovery	Limits		
Toluene-d8	97	70-130		
1,2-Dichloroethane-d4	98	70-130		
4-Bromofluorobenzene	96	70-130		

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WORK ORDER #: 0603223

Work Order Summary

CLIENT: PHONE: FAX: DATE RECEIVED: DATE COMPLETED:	Mr. Mark Allen SAS Environmental 1270 S. Cleveland Massillon Road Bldg.A Akron, OH 44321 330-666-1546 330-666-7443 03/10/2006 03/21/2006	CONTRA	Mr. Mark Allen SAS Environmental 1270 S. Cleveland Massillon Road Bldg.A Akron, OH 44321 7608 031091 UT Collierville Susan Alaniz
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2ACTION # 01A 02A 03A 04A 05A 06A 08A 09A	NAME SVE101INF (SP101) SVE201INF (SP201) SVE Combined INF (SP301) SVE INT (SP302) SVE EFF (SP303) Lab Blank LCS CCV	TEST Modified TO-15	RECEIPT VAC./PRES. Tedlar Bag Tedlar Bag Tedlar Bag Tedlar Bag Tedlar Bag NA NA NA
---	---	---	--

CERTIFIED BY:

03/23/06 DATE:

Laboratory Director

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004 NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/05, Expiration date: 06/30/06 Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE Modified TO-15 SAS Environmental Workorder# 0603223

Five 1 Liter Tedlar Bag samples were received on March 10, 2006. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

Method modifications taken to run these samples are summarized in the below table. Specific project requirements may over-ride the ATL modifications.

Requirement	TO-15	ATL Modifications					
Daily CCV	+- 30% Difference	= 30% Difference with two allowed out up to </=40%.;<br flag and narrate outliers					
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request					
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases					

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The reported LCS for each daily batch has been derived from more than one analytical file.

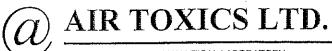
Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated peak.
 - Q Exceeds quality control limits.
 - U Compound analyzed for but not detected above the reporting limit.
 - UJ- Non-detected compound associated with low bias in the CCV
 - N The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

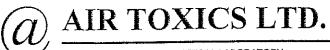
- a-File was requantified
- b-File was quantified by a second column and detector
- r1-File was requantified for the purpose of reissue



Client Sample ID: SVE1011NF (SP101)

Lab ID#: 0603223-01A

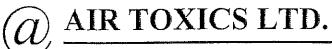
Dil. Factor:	20.0		Date of Analysis: 3/11/06 09:36 PM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)	
Freon 12	10	Not Detected	49	Not Detected	
Freon 114	10	Not Detected	70	Not Detected	
Chloromethane	40	Not Detected	83	Not Detected	
Vinyl Chloride	10	61	26	1 6 0	
1,3-Butadiene	10	Not Detected	22	Not Detected	
Bromomethane	10	Not Detected	39	Not Detected	
Chloroethane	10	Not Detected	26	Not Detected	
Freon 11	10	Not Detected	56	Not Detected	
Ethanol	40	Not Detected	75	Not Detected	
Freon 113	10	Not Detected	77	Not Detected	
1,1-Dichloroethene	10	Not Detected	40	Not Detected	
Acetone	40	Not Detected	95	Not Detected	
2-Propanol	40	Not Detected	98	Not Detected	
Carbon Disulfide	10	Not Detected	31	Not Detected	
3-Chloropropene	40	Not Detected	120	Not Detected	
Methylene Chloride	10	Not Detected	35	Not Detected	
Wethyl tert-butyl ether	10	Not Detected	36	Not Detected	
rans-1,2-Dichloroethene	10	17	40	68	
Hexane	10	Not Detected	35	Not Detected	
1,1-Dichloroethane	10	Not Detected	40	Not Detected	
2-Butanone (Methyl Ethyl Ketone)	10	Not Detected	29	Not Detected	
cis-1,2-Dichloroethene	10	930	40	3700	
Tetrahydrofuran	10	13	29	40	
Chloroform	10	Not Detected	49	Not Detected	
1,1.1-Trichloroethane	10	Not Detected	54	Not Detected	
Cyclohexane	10	Not Detected	34	Not Detected	
Carbon Tetrachloride	10	Not Detected	63	Not Detected	
2,2,4-Trimethylpentane	10 .	Not Detected	47	Not Detected	
Benzene	10	Not Detected	32	Not Detected	
1,2-Dichloroethane	10	Not Detected	40	Not Detected	
Heptane	10	Not Detected	41	Not Detected	
Frichloroethene	10	2400	54	13000	
1,2-Dichloropropane	10	Not Detected	46	Not Detected	
1,4-Dioxane	40	Not Detected	140	Not Detected	
Bromodichloromethane	10	Not Detected	67	Not Detected	
cis-1,3-Dichloropropene	10	Not Detected	45	Not Detected	
4-Methyl-2-pentanone	10	Not Detected	41	Not Detected	
Foluene	10	Not Detected	38	Not Detected	
rans-1,3-Dichloropropene	10	Not Detected	45	Not Detected	
1,1,2-Trichloroethane	10	Not Detected	54	Not Detected	



Client Sample ID: SVE1011NF (SP101)

Lab ID#: 0603223-01A

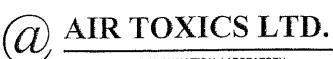
File Name: Dil. Factor:	8031118 2010		Date of Collection: 3/9/06 Date of Analysis: 3/11/06 09:36 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Tetrachioroethene	10	Not Detected	68	Not Detected
2-Hexanone	40	Not Detected	160	Not Detected
Dibromochloromethane	10	Not Detected	85	Not Detected
1,2-Dibromoethane (EDB)	10	Not Detected	77	Not Detected
Chlorobenzene	10	Not Detected	4 6	Not Detected
Ethyl Benzene	10	Not Detected	43	Not Detected
m,p-Xylene	10	Not Detected	43	Not Detected
o-Xylene	10	Not Detected	43	Not Detected
Styrene	10	Not Detected	42	Not Detected
Bromoform	10	Not Detected	100	Not Detected
Cumene	10	Not Detected	49	Not Detected
1,1,2,2-Tetrachloroethane	10	Not Detected	69	Not Detected
Propylbenzene	10	Not Detected	49	Not Detected
4-Ethyltoluene	10	Not Detected	49	Not Detected
1,3,5-Trimethylbenzene	10	Not Detected	49	Not Detected
1,2,4-Trimethylbenzene	10	Not Detected	49	Not Detected
1,3-Dichlorobenzene	10	Not Detected	60	Not Detected
1.4-Dichlorobenzene	10	Not Detected	60	Not Detected
alpha-Chlorotoluene	10	Not Detected	52	Not Detected
1,2-Dichlorobenzene	10	Not Detected	60	Not Detected
1,2,4-Trichlorobenzene	40	Not Detected	300	Not Detected
Hexachlorobutadiene	40	Not Detected	430	Not Detected
Container Type: 1 Liter Tedlar Bag				
				Method
Surrogates		%Recovery		Limits
Toluene-d8		98		70-130
1,2-Dichloroethane-d4		105		70-130
4-Bromofluorobenzene		93		70-130



Client Sample ID: SVE201INF (SP201)

Lab ID#: 0603223-02A

File Name: DII. Factor:	8031113 1000		Date of Collection: 3/9/06 Date of Analysis: 3/11/06 06:25 PM	
	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(ppbv)	(uG/m3)	(uG/m3)
Freon 12	500	Not Detected	2500	Not Detected
Freon 114	500	Not Detected	3500	Not Detected
Chloromethane	2000	Not Detected	4100	Not Detected
Vinyl Chloride	500	Not Detected	1300	Not Detected
1,3-Butadiene	500	Not Detected	1100	Not Detected
Bromomethane	500	Not Detected	1900	Not Detected
Chloroethane	500	Not Detected	1300	Not Detected
Freon 11	500	Not Detected	2800	Not Detected
Ethanol	2000	Not Detected	3800	Not Detected
Freon 113	500	Not Detected	3800	Not Detected
1,1-Dichloroethene	500	Not Detected	2000	Not Detected
Acetone	2000	Not Detected	4800	Not Detected
2-Propanol	2000	Not Detected	4900	Not Detected
Carbon Disulfide	500	Not Detected	1600	Not Detected
3-Chioropropene	2000	Not Detected	6300	Not Detected
Methylene Chloride	500	Not Detected	1700	Not Detected
Methyl tert-butyl ether	500	Not Detected	1800	Not Detected
trans-1,2-Dichloroethene	500	Not Detected	2000	Not Detected
Hexane	500	Not Detected	1800	Not Detected
1,1-Dichloroethane	500	Not Detected	2000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	500	Not Detected	1500	Not Detected
cis-1,2-Dichloroethene	500	1900	2000	7600
Tetrahydrofuran	500	Not Detected	1500	Not Detected
Chloroform	500	Not Detected	2400	Not Detected
1,1,1-Trichloroethane	500	Not Detected	2700	Not Detected
Cyclohexane	500	Not Detected	1700	Not Detected
Carbon Tetrachloride	500	Not Detected	3100	Not Detected
2,2,4-Trimethylpentane	500	Not Detected	2300	Not Detected
Benzene	500	Not Detected	1600	Not Detected
1,2-Dichloroethane	500	Not Detected	2000	Not Detected
Heptane	500	Not Detected	2000	Not Detected
Trichloroethene	500	86000	2700	460000
1,2-Dichloropropane	500	Not Detected	2300	Not Detected
1,4-Dioxane	2000	Not Detected	7200	Not Detected
Bromodichloromethane	500	Not Detected	3400	Not Detected
cis-1,3-Dichloropropene	500	Not Detected	2300	Not Detected
4-Methyl-2-pentanone	500	Not Detected	2000	Not Detected
Foluene	500	Not Detected	1900	Not Detected
rans-1,3-Dichloropropene	500	Not Detected	2300	Not Detected
1,1,2-Trichloroethane	500	Not Detected	2700	Not Detected



Client Sample ID: SVE201INF (SP201)

Lab ID#: 0603223-02A

File Name:	8031113		Date of Collection: Date of Analysis: 3	· · · · · · · · · · · · · · · · · · ·
Dil. Factor:	1000		Rpt. Limit	Amount
C	Rpt. Limit	Amount (ppbv)	крт. цттт (uG/m3)	(uG/m3)
Compound	(ppbv)			
Tetrachloroethene	500	Not Detected	3400	Not Detected
2-Hexanone	2000	Not Detected	8200	Not Detected
Dibromochloromethane	500	Not Detected	4200	Not Detected
1,2-Dibromoethane (EDB)	500	Not Detected	3800	Not Detected
Chlorobenzene	500	Not Detected	2300	Not Detected
Ethyl Benzene	500	Not Detected	2200	Not Detected
m,p-Xylene	500	Not Detected	2200	Not Detected
o-Xylene	500	Not Detected	2200	Not Detected
Styrene	500	Not Detected	2100	Not Detected
Bromoform	500	Not Detected	5200	Not Detected
Cumene	500	Not Detected	2400	Not Detected
1,1,2,2-Tetrachloroethane	500	Not Detected	3400	Not Detected
Propylbenzene	500	Not Detected	2400	Not Detected
4-Ethyltoluene	500	Not Detected	2400	Not Detected
1,3,5-Trimethylbenzene	500	Not Detected	2400	Not Detected
1,2,4-Trimethylbenzene	500	Not Detected	2400	Not Detected
1,3-Dichlorobenzene	500	Not Detected	3000	Not Detected
1,4-Dichlorobenzene	500	Not Detected	3000	Not Detected
alpha-Chlorotoluene	500	Not Detected	2600	Not Detected
1,2-Dichlorobenzene	500	Not Detected	3000	Not Detected
1,2,4-Trichlorobenzene	2000	Not Detected	15000	Not Detected
Hexachlorobutadiene	2000	Not Detected	21000	Not Detected
Container Type: 1 Liter Tedlar Bag				
Surrogates		%Recovery		Method Limits
Toluene-d8		96		70-130
1,2-Dichloroethane-d4		107		70-130
4-Bromofluorobenzene		89		70-130



Client Sample ID: SVE Combined INF (SP301)

Lab ID#: 0603223-03A

File Name: DII. Factor:	8031114 667		Date of Collection: Date of Analysis: 3	ollection: 3/9/06 nalysis: 3/11/06 06:53 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)	
Freon 12	330	Not Detected	1600	Not Detected	
Freon 114	330	Not Detected	2300	Not Detected	
Chloromethane	1300	Not Detected	2800	Not Detected	
Vinyl Chloride	330	Not Detected	850	Not Detected	
1,3-Butadiene	330	Not Detected	740	Not Detected	
Bromomethane	330	Not Detected	1300	Not Detected	
Chloroethane	330	Not Detected	880	Not Detected	
Freon 11	330	Not Detected	1900	Not Detected	
Ethanol	1300	Not Detected	2500	Not Detected	
Freon 113	330	Not Detected	2600	Not Detected	
1,1-Dichloroethene	330	Not Detected	1300	Not Detected	
Acetone	1300	Not Detected	3200	Not Detected	
2-Propanol	1300	Not Detected	3300	Not Detected	
Carbon Disulfide	330	Not Detected	1000	Not Detected	
3-Chloropropene	1300	Not Detected	4200	Not Detected	
Methylene Chloride	330 -	Not Detected	1200	Not Detected	
Methyl tert-butyl ether	330	Not Detected	1200	Not Detected	
trans-1,2-Dichloroethene	330	Not Detected	1300	Not Detected	
Hexane	330	Not Detected	1200	Not Detected	
1,1-Dichloroethane	330	Not Detected	1300	Not Detected	
2-Butanone (Methyl Ethyl Ketone)	330	Not Detected	980	Not Detected	
• •	330	1600	1300	6200	
cis-1,2-Dichloroethene	330	Not Detected	980	Not Detected	
Tetrahydrofuran Chloroform	330	Not Detected	1600	Not Detected	
	330	Not Detected	1800	Not Detected	
1,1,1-Trichloroethane	330	Not Detected	1100	Not Detected	
Cyclohexane	330	Not Detected	2100	Not Detected	
Carbon Tetrachloride	330	Not Detected	1600	Not Detected	
2,2,4-Trimethylpentane	330	Not Detected	1100	Not Detected	
Benzene 1.7 Dichloroothone	330	Not Detected	1300	Not Detected	
1,2-Dichloroethane	330	Not Detected	1400	Not Detected	
Heptane	330	60000	1800	320000	
Trichloroethene	330	Not Detected	1500	Not Detected	
1,2-Dichloropropane	1300	Not Detected	4800	Not Detected	
1,4-Dioxane	330	Not Detected	2200	Not Detected	
Bromodichloromethane	330	Not Detected	1500	Not Detected	
cis-1,3-Dichloropropene	330	Not Detected	1400	Not Detected	
4-Methyl-2-pentanone	330	Not Detected	1200	Not Detected	
Toluene	330	Not Detected	1500	Not Detected	
trans-1,3-Dichloropropene	330	Not Detected	1800	Not Detected	
1,1,2-Trichloroethane	330	MOI DEIECIEU			



Client Sample ID: SVE Combined INF (SP301)

Lab ID#: 0603223-03A

2-Hexanone Dibromochloromethane 1,2-Dibromoethane (EDB) Chlorobenzene Ethyl Benzene m,p-Xylene	667; Rpt. Limit (ppbv) 330 1300	Amount (ppbv) Not Detected	Rpt. Limit (uG/m3)	Amount (uG/m3)
Tetrachloroethene 2-Hexanone Dibromochloromethane 1,2-Dibromoethane (EDB) Chlorobenzene Ethyl Benzene m,p-Xylene o-Xylene	330 1300	•		(acrito)
2-Hexanone Dibromochloromethane 1,2-Dibromoethane (EDB) Chlorobenzene Ethyl Benzene m,p-Xylene	1300		2300	Not Detected
Dibromochloromethane 1,2-Dibromoethane (EDB) Chlorobenzene Ethyl Benzene m,p-Xylene		Not Detected	5500	Not Detected
1,2-Dibromoethane (EDB) Chlorobenzene Ethyl Benzene m,p-Xylene	330	Not Detected	2800	Not Detected
Chlorobenzene Ethyl Benzene m,p-Xylene	330	Not Detected	2600	Not Detected
Ethyl Benzene m.p-Xylene	330	Not Detected	1500	Not Detected
m,p-Xylene	330	Not Detected	1400	Not Detected
•	330	Not Detected	1400	Not Detected
	330	Not Detected	1400	Not Detected
-	330	Not Detected	1400	Not Detected
Styrene	330	Not Detected	3400	Not Detected
Bromoform	330	Not Detected	1600	Not Detected
Cumene	330	Not Detected	2300	Not Detected
1,1,2,2-Tetrachloroethane	330	Not Detected	1600	Not Detected
Propylbenzene	330	Not Detected	1600	Not Detected
4-Ethyltoluene	330	Not Detected	1600	Not Detected
1,3,5-Trimethylbenzene	330	Not Detected	1600	Not Detected
1,2,4-Trimethylbenzene	330	Not Detected	2000	Not Detected
1,3-Dichlorobenzene	330	Not Detected	2000	Not Detected
1,4-Dichlorobenzene	330	Not Detected	1700	Not Detected
alpha-Chlorotoluene	330	Not Detected	2000	Not Detected
1,2-Dichlorobenzene	1300	Not Detected	9900	Not Detected
1,2,4-Trichlorobenzene	1300	Not Detected	14000	Not Detected
Hexachlorobutadiene	1000	7,01,000000		
Container Type: 1 Liter Tedlar Bag				Method
Surrogates		%Recovery		Limits
		97	·	70-130
Toluene-d8		101		70-130
1,2-Dichloroethane-d4 4-Bromofluorobenzene		88		70-130

2960 Foster Creighton Fax: 615-726-3404 Nashville Divised Phona: 615-726-0177

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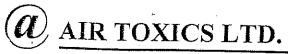
Relinquished By:

Received By: :eur] Method of Shipment Relinquished By: Date: :juuj [(1486 :3mit 1/6/18 (1941) Received By:\Z Bottles Supplied by Test America: N Rollinguished By: Col Little & Received By Shed Ed 7/8/E Custody Seals: T nui: 2/5/2 5161 Rec Lab Temp: Y N NOWE TEMP Oneil do 450 121 @ col con INITER Temp: CUSTODY SEAL INTACT? Special instructions: <u>- ЕТИВИМЕЙТЕ</u> 140 (EDE 65) #33 JAS 450 Fat 3 5 2/8/8 SIH r (50592) TUI 3UR APO 7/6/5 9. 8//1 X 7 63H STE Combined INT (SP301) ħ EZA 2/6/2 X Z CIOZAS) CHI 102 BAS WEG 2/6/5 L) 81/11 χ Z A16 345101 A16 2007 b SZhi 2/0/8 Z 1 me SAMPLE ID G = Grab, C = Date Sampled SL - Sludge DW - Drinking Warlet GW - Groundwater S - Soll/Solid WW - Wastewater Specify Other Field Filtered NBOH HCI HNO Methenol H2SO. None Other (Specify) TO S TO TO REMARKS Sampled Fax Results: Other = Composite 19V914 Date Needed: E lava_ (Batch QC) Rush (surcharges may apply) briebned 2 Level 2 Mone. Matrix Preservation & # of Containers OC Deliverables Analyze For Sampler Signature: Off Mount 36770 60006 # elono 809/ #0d Sampler Name: (Print Name) JEANE CONDER ST INVOICE TO: SUZ ENVIRONMENTAL SUZ THIS MA OES Telephone Mumber: EARE 779088 XES Report TO: MARK VALLET Project Manager. MANK VAMEN Status Courses Letter State: 37V CITY/Slate/Zip Code: HURRON BY HUSSA Project#: Address: 1970 & Wells MASS AD Project Name: UT Court Plant CHENT NAME SAS ENVIRONMENTAL INC COBUL # 3403 ANALYTICAL TESTING CORPORATION Nashville, TN 37204

0580 LHMS 958: 43 PM

Compliance Monitoring

is this work being conducted for regulatory purposes?



WORK ORDER #: 0603446

Work Order Summary

CLIENT:

Mr. Mark Allen

BILL TO:

Mr. Mark Allen

SAS Environmental

SAS Environmental

1270 S. Cleveland Massillon Road

1270 S. Cleveland Massillon Road

Bldg.A

Bldg.A

Akron, OH 44321

Akron, OH 44321

PHONE:

330-666-1546

P.O. #

7608

FAX:

330-666-7443

PROJECT #

031091 Collierville

DATE RECEIVED: DATE COMPLETED:

03/22/2006 03/23/2006

CONTACT:

Susan Alaniz

FRACTION # 01A .2A 03A 04A 05A	NAME Combined INF (SP301) SVE INT (SP302) Lab Blank CCV LCS	TEST Modified TO-15 Modified TO-15 Modified TO-15 Modified TO-15	RECEIPT VAC./PRES. Tedlar Bag Tedlar Bag NA NA
		Modified TO-15	NA

CERTIFIED BY:

Sinda d. Fruman

DATE: 0

03/23/06

Laboratory Director

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004 NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/05, Expiration date: 06/30/06

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE Modified TO-15 SAS Environmental Workorder# 0603446

Two 1 Liter Tedlar Bag samples were received on March 22, 2006. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

Method modifications taken to run these samples are summarized in the below table. Specific project requirements may over-ride the ATL modifications.

Requirement	TO-15	ATL Modifications = 30% Difference with two allowed out up to </=40%.; flag and narrate outliers</th							
Daily CCV	+- 30% Difference								
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request							
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases							

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The reported LCS for each daily batch has been derived from more than one analytical file.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated peak.
 - Q Exceeds quality control limits.
 - U Compound analyzed for but not detected above the reporting limit.
 - UJ- Non-detected compound associated with low bias in the CCV
 - N The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

- a-File was requantified
- b-File was quantified by a second column and detector



r1-File was requantified for the purpose of reissue



Client Sample ID: Combined INF (SP301)

Lab ID#: 0603446-01A

File Name: Dil. Factor:	f032210 400		Date of Collection: Date of Analysis:	3/22/06 04:20 PM
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	200	Not Detected	990	Not Detected
Freon 114	200	Not Detected	1400	Not Detected
Chloromethane	800	Not Detected	1600	Not Detected
Vinyl Chloride	200	Not Detected	510	Not Detected
1,3-Butadiene	200	Not Detected	440	Not Detected
Bromomethane	200	Not Detected	780	Not Detected
Chloroethane	200	Not Detected	530	Not Detected
Freon 11	200	Not Detected	1100	
Ethanoi	800	Not Detected	1500	Not Detected
Freon 113	200			Not Detected
1,1-Dichloroethene	200	Not Detected	1500	Not Detected
	800	Not Detected	790 1000	Not Detected
Acetone 2 Proposal	800	Not Detected	1900	Not Detected
2-Propanol		1000	2000	2500
Carbon Disulfide	200 800	Not Detected	620	Not Detected
3-Chloropropene		Not Detected	2500	Not Detected
Methylene Chloride	200	Not Detected	690	Not Detected
Methyl tert-butyl ether	200	Not Detected	720	Not Detected
trans-1,2-Dichloroethene	200	Not Detected	790	Not Detected
Hexane	200	Not Detected	700	Not Detected
1,1-Dichloroethane	200	Not Detected	810	Not Detected
2-Butanone (Methyl Ethyl Ketone)	200	Not Detected	590	Not Detected
cis-1,2-Dichloroethene	200	1700	790	6600
Tetrahydrofuran	200	Not Detected	590	Not Detected
Chloroform	200	Not Detected	980	Not Detected
1,1,1-Trichloroethane	200	Not Detected	1100	Not Detected
Cyclohexane	200	4800	690	17000
Carbon Tetrachloride	200	Not Detected	1200	Not Detected
2,2,4-Trimethylpentane	200	Not Detected	930	Not Detected
Benzene	200	Not Detected	640	Not Detected
1,2-Dichloroethane	200	Not Detected	810	Not Detected
Heptane	200	990	820	4100
Trichloroethene	200	63000	1100	340000
1,2-Dichloropropane	200	Not Detected	920	Not Detected
1,4-Dioxane	800	Not Detected	2900	Not Detected
Bromodichloromethane	200	Not Detected	1300	Not Detected
cis-1,3-Dichloropropene	200	Not Detected	910	Not Detected
4-Methyl-2-pentanone	200	Not Detected	820	Not Detected
Toluene	200	Not Detected	750	Not Detected
rans-1,3-Dichloropropene	200	Not Detected	910	Not Detected
1,1,2-Trichloroethane	200	Not Detected	1100	Not Detected



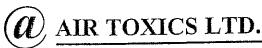
Client Sample ID: Combined INF (SP301)

Lab ID#: 0603446-01A

File Name: Dil. Factor:	f0322]0; 400		Date of Collection: 3/21/06					
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)				
Tetrachloroethene	200	Not Detected	1400	Not Detected				
2-Hexanone	800	Not Detected	3300	Not Detected				
Dibromochloromethane	200	Not Detected	1700	Not Detected				
1,2-Dibromoethane (EDB)	200	Not Detected	1500	Not Detected				
Chlorobenzene	200	Not Detected	920	Not Detected				
Ethyl Benzene	200	Not Detected	870	Not Detected				
m,p-Xylene	200	Not Detected	870	Not Detected				
o-Xylene	200	Not Detected	870	Not Detected				
Styrene	200	Not Detected	850	Not Detected				
Bromoform	200	Not Detected	2100	Not Detected				
Cumene	200	Not Detected	980	Not Detected				
1,1,2,2-Tetrachloroethane	200	Not Detected	1400	Not Detected				
Propylbenzene	200	Not Detected	980	Not Detected				
4-Ethyltoluene	200	Not Detected	980	Not Detected				
1,3,5-Trimethylbenzene	200	Not Detected	980	Not Detected				
1,2,4-Trimethylbenzene	200	Not Detected	980	Not Detected				
1,3-Dichlorobenzene	200	Not Detected	1200	Not Detected				
1,4-Dichlorobenzene	200	Not Detected	1200	Not Detected				
alpha-Chlorotoluene	200	Not Detected	1000	Not Detected				
1,2-Dichlorobenzene	200	Not Detected	1200	Not Detected				
1,2,4-Trichlorobenzene	800	Not Detected	5900	Not Detected				
Hexachlorobutadiene	800	Not Detected	8500	Not Detected				
Container Type: 1 Liter Tedlar Bag								
				Method				
Surrogates		%Recovery		Limits				
Toluene-d8		98		70-130				
1,2-Dichloroethane-d4		106		70-130				
4-Bromofluorobenzene		100		70-130				

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Fax Results: V	Date Sampled		Time Sampled	G = Grab, C =	Fleid Filtered	SL - Sludge DW - GW - Groundwater WW - Wastewater	HNO ₃	HCI	HOEN	H ₂ SO ₄	None	Other (Specify)	Com moon was	Ü									Lev.	5K6
Standard Standard Standard Standard Standard Standard Standard Standard				= Composite		DW - Drinking Water Name S - Soll/Solid swater Specify Other									\angle								/o// //o.l //o.l //o.l	Vel 2 teh QC) Vel 3
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0603604 **WORK ORDER #:**

Work Order Summary

CLIENT:

Mr. Mark Allen

SAS Environmental

1270 S. Cleveland Massillon Road

BILL TO: Mr. Mark Allen

SAS Environmental

1270 S. Cleveland Massillon Road

Bldg.A

Akron, OH 44321

Akron, OH 44321

P.O. #

7608

PHONE: FAX:

330-666-1546 330-666-7443

031091 UT Collierville

DATE RECEIVED:

03/29/2006

PROJECT#

CONTACT: Susan Alaniz

DATE COMPLETED:

03/30/2006

NAME FRACTION# Combined INF (SP301) 01A SVE INT (SP302) 02A Lab Blank 03A CCV 04A LCS 05A

	RECEIPT
TEST	VAC./PRES.
Modified TO-15	Tedlar Bag
Modified TO-15	Tedlar Bag
Modified TO-15	NA
Modified TO-15	NA
Modified TO-15	NA

CERTIFIED BY:

Siste d. Frances

03/30/06 DATE:

Laboratory Director

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004 NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/05, Expiration date: 06/30/06

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE Modified TO-15 SAS Environmental Workorder# 0603604

Two 1 Liter Tedlar Bag samples were received on March 29, 2006. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

Method modifications taken to run these samples are summarized in the below table. Specific project requirements may over-ride the ATL modifications.

Requirement	· TO-15	ATL Modifications							
Daily CCV	+- 30% Difference	= 30% Difference with two allowed out up to </=40%. flag and narrate outliers</p							
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request							
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases							

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

All Quality Control Limit failures and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page. Target compound non-detects in the samples that are associated with high bias in QC analyses have not been flagged.

The reported LCS for each daily batch has been derived from more than one analytical file.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit (background subtraction no performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated peak.
 - Q Exceeds quality control limits.
 - U Compound analyzed for but not detected above the reporting limit.
 - UJ- Non-detected compound associated with low bias in the CCV
 - N The identification is based on presumptive evidence.



File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue



Summary of Detected Compounds MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: Combined INF (SP301)

Lab ID#: 0603604-01A

Compound	Røt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
2-Propanol	470	530	1200	1300
Carbon Disulfide	120	120	360	360
cis-1,2-Dichloroethene	120	760	460	3000
Cyclohexane	120	2400	400	8400
Heptane	120	650	480	2600
Trichloroethene	120	32000	630	170000



Client Sample ID: Combined INF (SP301)

Lab ID#: 0603604-01A

File Name: Dll. Factor:	1032922 235		Date of Collection: 3/28/06 Date of Analysis: 3/30/06 01:19 AM					
	Rot. Limit	Amount	Rpt. Limit	Amount				
Compound	(ppbv)	(ppbv)	(uG/m3)	(uG/m3)				
Freon 12	120	Not Detected	580	Not Detected				
Freon 114	120	Not Detected	820	Not Detected				
Chloromethane	470	Not Detected	970	Not Detected				
Vinyi Chloride	120	Not Detected	300	Not Detected				
1,3-Butadiene	120	Not Detected	260	Not Detected				
Bromomethane	120	Not Detected	460	Not Detected				
Chloroethane	120	Not Detected	310	Not Detected				
Freon 11	120	Not Detected	660	Not Detected				
Ethanol	470	Not Detected	880	Not Detected				
Freon 113	120	Not Detected	900	Not Detected				
1,1-Dichloroethene	120	Not Detected	460	Not Detected				
Acetone	470	Not Detected	1100	Not Detected				
2-Propanol	470	530	1200	1300				
Carbon Disulfide	120	120	360	360				
3-Chloropropene	470	Not Detected	1500	Not Detected				
Methylene Chloride	120	Not Detected	410	Not Detected				
Methyl tert-butyl ether	120	Not Detected	420	Not Detected				
trans-1,2-Dichloroethene	120	Not Detected	460	Not Detected				
Hexane	120	Not Detected U J	410	Not Detected U				
1,1-Dichloroethane	120	Not Detected	480	Not Detected				
2-Butanone (Methyl Ethyl Ketone)	120	Not Detected	350	Not Detected				
cis-1,2-Dichloroethene	120	760	460	3000				
Tetrahydrofuran	120	Not Detected	350	Not Detected				
Chloroform	120	Not Detected	570	Not Detected				
1,1,1-Trichloroethane	120	Not Detected	640	Not Detected				
Cyclohexane	120	2400	400	8400				
Carbon Tetrachloride	120	Not Detected	740	Not Detected				
2,2,4-Trimethylpentane	120	Not Detected U J	550	Not Detected U				
Benzene	120	Not Detected	380	Not Detected				
1,2-Dichloroethane	120	Not Detected	480	Not Detected				
Heptane	120	650	480	2600				
Trichloroethene	120	32000	630	170000				
1,2-Dichloropropane	120	Not Detected	540	Not Detected				
1,4-Dioxane	470	Not Detected	1700	Not Detected				
Bromodichloromethane	120	Not Detected	790	Not Detected				
cis-1,3-Dichloropropene	120	Not Detected	530	Not Detected				
4-Methyl-2-pentanone	120	Not Detected	480	Not Detected				
Toluene	120	Not Detected	440	Not Detected				
trans-1,3-Dichloropropene	120	Not Detected	530	Not Detected				
1,1,2-Trichloroethane	120	Not Detected	640	Not Detected				



Client Sample ID: Combined INF (SP301)

Lab ID#: 0603604-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name: Dll, Factor:	1032922 235		Date of Collection: 3/28/06 Date of Analysis: 3/30/06 01:19 AM				
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)			
Tetrachloroethene	120	Not Detected	800	Not Detected			
2-Hexanone	470	Not Detected	1900	Not Detected			
Dibromochloromethane	120	Not Detected	1000	Not Detected			
1,2-Dibromoethane (EDB)	120	Not Detected	900	Not Detected			
Chiorobenzene	120	Not Detected	540	Not Detected			
Ethyl Benzene	120	Not Detected	510	Not Detected			
m,p-Xylene	120	Not Detected	510	Not Detected			
o-Xylene	120	Not Detected	510	Not Detected			
Styrene	120	Not Detected	500	Not Detected			
Bromoform	120	Not Detected	1200	Not Detected			
Cumene	120	Not Detected	580	Not Detected			
1,1,2,2-Tetrachloroethane	120	Not Detected	810	Not Detected			
Propylbenzene	120	Not Detected	580	Not Detected			
4-Ethyltoluene	120	Not Detected	580	Not Detected			
1,3,5-Trimethylbenzene	120	Not Detected	580	Not Detected			
1,2,4-Trimethylbenzene	120	Not Detected	580	Not Detected			
1,3-Dichlorobenzene	120	Not Detected	710	Not Detected			
1,4-Dichlorobenzene	120	Not Detected	710	Not Detected			
alpha-Chlorotoluene	120	Not Detected	610	Not Detected			
1,2-Dichlorobenzene	120	Not Detected	710	Not Detected			
1,2,4-Trichlorobenzene	470	Not Detected	3500	Not Detected			
Hexachlorobutadiene	470	Not Detected	5000	Not Detected			

UJ = Non-detected compound associated with low bias in the CCV

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	ivetnod Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	117	70-130
4-Bromofluorobenzene	110	70-130

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WORK ORDER #:

0604050B

Work Order Summary

CLIENT:

Mr. Mark Allen

SAS Environmental

1270 S. Cleveland Massillon Road

Bldg.A

Akron, OH 44321

PHONE: FAX:

330-666-1546

330-666-7443

DATE RECEIVED:

04/05/2006

DATE COMPLETED:

04/18/2006

BILL TO: Mr. Mark Allen

SAS Environmental

1270 S. Cleveland Massillon Road

TO 27 / 77 / 77 / 77

Bldg.A

Akron, OH 44321

P.O.# 7608

0301091 UT Collierville PROJECT#

CONTACT:

Susan Alaniz

			RECEPT
FRACTION#	NAME	TEST	YAC./PRES.
01A	SVE 101 INF (SP101)	Modified TO-15	Tedlar Bag
02A	SVE 201 INF (SP201)	Modified TO-15	Tedlar Bag
05A	SVE EFF (SP303)	Modified TO-15	Tedlar Bag
05AA	SVE EFF (SP303) Duplicate	Modified TO-15	Tedlar Bag
06A	Lab Blank	Modified TO-15	NA
07A	CCV	Modified TO-15	NA
08A	LCS	Modified TO-15	NA

CERTIFIED BY:

04/18/06 DATE:

Laboratory Director

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004

NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/05, Expiration date: 06/30/06

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE Modified TO-15 SAS Environmental Workorder# 0604050B

Three 1 Liter Tedlar Bag samples were received on April 05, 2006. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

Method modifications taken to run these samples are summarized in the below table. Specific project requirements may over-ride the ATL modifications.

Requirement	TO-15	ATL Modifications
Daily CCV	+- 30% Difference	= 30% Difference with two allowed out up to </=40%.;<br flag and narrate outliers
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The reported LCS for each daily batch has been derived from more than one analytical file.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit (background subtraction no performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated peak.
 - Q Exceeds quality control limits.
 - U Compound analyzed for but not detected above the reporting limit.
 - UJ- Non-detected compound associated with low bias in the CCV
 - N The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:



a-File was requantified b-File was quantified by a second column and detector r1-File was requantified for the purpose of reissue



Summary of Detected Compounds MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SVE 101 INF (SP101)

Lab ID#: 0604050B-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	7.2	42	18	110
trans-1,2-Dichloroethene	7.2	13	28	53
cis-1,2-Dichloroethene	7.2	990	28	3900
Trichloroethene	7.2	2100	38	11000

Client Sample ID: SVE 201 INF (SP201)

Lab ID#: 0604050B-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
cis-1,2-Dichloroethene	330	1300	1300	5300
Trichloroethene	330	66000	1800	360000



Client Sample ID: SVE 101 INF (SP101)

Lab ID#: 0604050B-01A

File Name: Dil. Factor:	,f040527 14.3		Date of Collection: Date of Analysis: 4	
	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound	(vdqq)	(pdpv)	(uG/m3)	(uG/m3)
Freon 12	7.2	Not Detected	35	Not Detected
Freon 114	7.2	Not Detected	50	Not Detected
Chloromethane	29	Not Detected	59	Not Detected
Vinyl Chloride	7.2	42	18	110
1,3-Butadiene	7.2	Not Detected	16	Not Detected
Bromomethane	7.2	Not Detected	28	Not Detected
Chloroethane	7.2	Not Detected	19	Not Detected
Freon 11	7.2	Not Detected	40	Not Detected
Ethanol	29	Not Detected	54	Not Detected
Freon 113	7.2	Not Detected	55	Not Detected
1,1-Dichloroethene	7.2	Not Detected	28	Not Detected
Acetone	29	Not Detected	68	Not Detected
2-Propanol	29	Not Detected	70	Not Detected
Carbon Disulfide	7.2	Not Detected	22	Not Detected
3-Chloropropene	29	Not Detected	90	Not Detected
Methylene Chloride	7.2	Not Detected	25	Not Detected
Methyl tert-butyl ether	7.2	Not Detected	26	Not Detected
trans-1,2-Dichloroethene	7.2	13	28	53
Hexane	7.2	Not Detected	25	Not Detected
1,1-Dichloroethane	7.2	Not Detected	29	Not Detected
2-Butanone (Methyl Ethyl Ketone)	7.2	Not Detected	21	Not Detected
cis-1,2-Dichloroethene	7.2	990	28	3900
Tetrahydrofuran	7.2	Not Detected	21	Not Detected
Chloroform	7.2	Not Detected	35	Not Detected
1,1,1-Trichloroethane	7.2	Not Detected	39	Not Detected
Cyclohexane	7.2	Not Detected	25	Not Detected
Carbon Tetrachioride	7.2	Not Detected	45	Not Detected
2,2,4-Trimethylpentane	7.2	Not Detected	33	Not Detected
Benzene	7.2	Not Detected	23	Not Detected
1,2-Dichloroethane	7.2	Not Detected	29	Not Detected
Heptane	7.2	Not Detected	29	Not Detected
Trichloroethene	7.2	2100	38	11000
1,2-Dichloropropane	7.2	Not Detected	33	Not Detected
1,4-Dioxane	29	Not Detected	100	Not Detected
Bromodichloromethane	7.2	Not Detected	48	Not Detected
cis-1,3-Dichloropropene	7.2	Not Detected	32	Not Detected
4-Methyl-2-pentanone	7.2	Not Detected	29	Not Detected
Toluene	7.2	Not Detected	27	Not Detected
irans-1,3-Dichloropropene	7.2	Not Detected	32	Not Detected
1,1,2-Trichloroethane	7.2	Not Detected	39	Not Detected



Client Sample ID: SVE 101 INF (SP101)

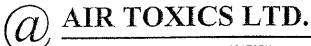
Lab ID#: 0604050B-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name: Dil. Factor:	f040527 14.3		Date of Collection: 4/4/06 Date of Analysis: 4/6/06 05:52 AM					
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)				
Tetrachloroethene	7.2	Not Detected	48	Not Detected				
2-Hexanone	29	Not Detected	120	Not Detected				
Dibromochioromethane	7.2	Not Detected	61	Not Detected				
1,2-Dibromoethane (EDB)	7.2	Not Detected	55	Not Detected				
Chlorobenzene	7.2	Not Detected	33	Not Detected				
Ethyl Benzene	7.2	Not Detected	31	Not Detected				
m,p-Xylene	7.2	Not Detected	31	Not Detected				
o-Xylene	7.2	Not Detected	31	Not Detected				
Styrene	7.2	Not Detected	30	Not Detected				
Bromoform	7.2	Not Detected	74	Not Detected				
Cumene	7.2	Not Detected	35	Not Detected				
1,1,2,2-Tetrachloroethane	7.2	Not Detected	49	Not Detected				
Propylbenzene	7.2	Not Detected	35	Not Detected				
4-Ethyltoluene	7.2	Not Detected	35	Not Detected				
1,3,5-Trimethylbenzene	7.2	Not Detected	35	Not Detected				
1,2,4-Trimethylbenzene	7.2	Not Detected	35	Not Detected				
1,3-Dichlorobenzene	7.2	Not Detected	43	Not Detected				
1,4-Dichlorobenzene	7.2	Not Detected	43	Not Detected				
alpha-Chiorotoluene	7.2	Not Detected	37	Not Detected				
1,2-Dichlorobenzene	7.2	Not Detected	43	Not Detected				
1,2,4-Trichlorobenzene	29	Not Detected	210	Not Detected				
Hexachlorobutadiene	29	Not Detected	300	Not Detected				

Container Type: 1 Liter Tedlar Bag

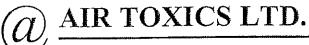
		Method
Surrogates	%Recovery	Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	109	70-130
4-Bromofluorobenzene	103	70-130



Client Sample ID: SVE 201 INF (SP201)

Lab ID#: 0604050B-02A

File Name: Dil. Factor:	f040530 667		Date of Collection: Date of Analysis: 4	
	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(ppbv)	(uG/m3)	(uG/m3)
Freon 12	330	Not Detected	1600	Not Detected
Freon 12 Freon 114	330	Not Detected	2300	Not Detected
Chloromethane	1300	Not Detected	2800	Not Detected
	330	Not Detected	850	Not Detected
Vinyl Chloride	330	Not Detected	740	Not Detected
1,3-Butadiene Bromomethane	330	Not Detected	1300	Not Detected
Chloroethane	330	Not Detected	880	Not Detected
Freon 11	330	Not Detected	1900	Not Detected
Ethanol	1300	Not Detected	2500	Not Detected
	330	Not Detected	2600	Not Detected
Freon 113	330	Not Detected	1300	Not Detected
1,1-Dichloroethene	1300	Not Detected	3200	Not Detected
Acetone	1300	Not Detected	3300	Not Detected
2-Propanol	330	Not Detected	1000	Not Detected
Carbon Disulfide	1300	Not Detected	4200	Not Detected
3-Chloropropene	330	Not Detected	1200	Not Detected
Methylene Chloride	330	Not Detected	1200	Not Detected
Methyl tert-butyl ether	330	Not Detected	1300	Not Detected
rans-1,2-Dichloroethene	330	Not Detected	1200	Not Detected
Hexane	330	Not Detected	1300	Not Detected
1,1-Dichloroethane	330	Not Detected	980	Not Detected
2-Butanone (Methyl Ethyl Ketone)	330	1300	1300	5300
cis-1,2-Dichloroethene			980	Not Detected
Tetrahydrofuran	330 330	Not Detected	1600	Not Detected
Ohloroform		Not Detected	1800	Not Detected
1,1,1-Trichloroethane	330	Not Detected	1100	Not Detected
Cyclohexane	330	Not Detected	2100	Not Detected
Carbon Tetrachloride	330	Not Detected	1600	Not Detected
2,2,4-Trimethylpentane	330	Not Detected	1100	Not Detected
Benzene	330 330	Not Detected	1300	Not Detected
1,2-Dichloroethane		Not Detected	1400	Not Detected
Heptane	330	Not Detected	1800	36 0000
Frichloroethene	330	00000	1500	Not Detected
1,2-Dichloropropane	330	Not Detected	4800	Not Detected
1,4-Dioxane	1300	Not Detected	2200	Not Detected
3romodichloromethane	330	Not Detected		
cis-1,3-Dichloropropene	330	Not Detected	1500	Not Detected Not Detected
1-Methyl-2-pentanone	330	Not Detected	1400	
Toluene	330	Not Detected	1200	Not Detected
rans-1,3-Dichloropropene	330	Not Detected	1500	Not Detected
I,1,2-Trichioroethane	330	Not Detected	1800	Not Detected



Client Sample ID: SVE 201 INF (SP201)

Lab ID#: 0604050B-02A

MODI	FIED EPA METHOD	10-15 GC/MS FUL	L SCAIN	. winer-Aband, file e
File Name: Dil. Factor:	f040530 667		Date of Collection: Date of Analysis: 4	
	Rot. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(ppbv)	(uG/m3)	(uG/m3)
Tetrachloroethene	330	Not Detected	2300	Not Detected
2-Hexanone	1300	Not Detected	5500	Not Detected
Dibromochloromethane	330	Not Detected	2800	Not Detected
1,2-Dibromoethane (EDB)	330	Not Detected	2600	Not Detected
Chlorobenzene	330	Not Detected	1500	Not Detected
Ethyl Benzene	330	Not Detected	1400	Not Detected
m,p-Xylene	330	Not Detected	1400	Not Detected
o-Xylene	330	Not Detected	1400	Not Detected
Styrene	330	Not Detected	1400	Not Detected
Bromoform	330	Not Detected	3400	Not Detected
Cumene	330	Not Detected	1600	Not Detected
1,1,2,2-Tetrachloroethane	330	Not Detected	2300	Not Detected
Propylbenzene	330	Not Detected	1600	Not Detected
4-Ethyltoluene	330	Not Detected	1600	Not Detected
1,3,5-Trimethylbenzene	330	Not Detected	1600	Not Detected
1,2,4-Trimethylbenzene	330	Not Detected	1600	Not Detected
1,3-Dichlorobenzene	330	Not Detected	2000	Not Detected
1,4-Dichlorobenzene	330	Not Detected	2000	Not Detected
alpha-Chlorotoluene	330	Not Detected	1700	Not Detected
1,2-Dichlorobenzene	330	Not Detected	2000	Not Detected
1,2,4-Trichlorobenzene	1300	Not Detected	9900	Not Detected
Hexachlorobutadiene	1300	Not Detected	14000	Not Detected
Container Type: 1 Liter Tedlar Bag				
Surrogates		%Recovery		Method Limits
Toluene-d8		98		70-130
1.2-Dichloroethane-d4		111		70-130
4-Bromofluorobenzene		99		70-130

To assist us in using the proper analytical methods,

is this work being conducted for regulatory purposes?

0604050B

OIA

Forsom CA 95630 2960 Foster Creighton Nashville: TN 37204

180 BIVE RAVINE DO SUTEB

Phone: 615-726-0177

Fax. -- 615-726-3404-

800 985 5955

ANALYTICAL TESTING CORPO	DRATION	enternet	-		7.10								ويع مثل	65			-	Compile	SUCE IN	onitonn	g		
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Project Manager.	ma	KK V.	ALL	لهمت	,										Site	/Locati	on ID:	C04	(EXV	ME			State: ナル
Telephone Number:	330-	-666-15	ŧά				F	ax			8,	1390	566744	3		Rep	ort To:	m	ARK	V. AL	EN		
Sampler Name: (Print Name)	STA	WK O	Con	Wet	ee Sa							2- 2				Invoi	ce To:	SAS.	STAN WOR	wine	ENTR	t. /30	
Sampler Signature:	als	1 Allen	12/1	7									÷		•	Qı	10te #:		,			PO#:	
• •					Matrix	Pre	serva	ation	8#	of Co	onia	iners			:		Analyz	e For:				-	
TAT Standard Stocker 303 X Rush (surcharges may apply) SP301 SP302 Date Needed: Fax Results: (A) N SAMPLE ID	Date Sampled	Time Samp led	G.= Grab, C = Composite	Field Filtered	SL. Skidge DW - Drinking Water GW - Groundwater S - Soil/Soild WW - Wasterfater Specky Other	HNO,	TC	NACH	H2SO4	Melhanol	Mone	(Specify)	10	,015									QC Deliverables None Level 2 (Batch QC) Level 3 Level 4 Other: REMARKS
SVE 101 INF (SPIOI)	4-4-6	1427	4		GOOR						2		X					,					SPANDARD TAT
STEZOI INF (SPZOI)	4-4-6	1435	4		Va Porz						2		Х										STANDAND TAT
SVE COMBINEDINE (SP301)	4-4-6	1432	4		FATOR				_		Z	L	X										BUSH 24 HATAT
SVE INT (SP36Z)	4-4-6	1424	6		VAPOR	L			L		2		Х										RUSH BY HK TAT
SVE EFF (SP303)	4-4-6	1120	6		VAPOR						Z		X			<u> </u>		1					STANDAND TAT
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AND BUILT 8565 6647 0970 FEDEX

WORK ORDER #: 0604050A

Work Order Summary

CLIENT:

Mr. Mark Allen

BILL TO: Mr. Mark Allen

SAS Environmental

1270 S. Cleveland Massillon Road

SAS Environmental

1270 S. Cleveland Massillon Road

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Bldg.A

Bldg.A

Akron, OH 44321

PHONE:

330-666-1546

Akron, OH 44321

7608 P.O. #

FAX:

330-666-7443

PROJECT#

0301091 UT Collierville

DATE RECEIVED: DATE COMPLETED: 04/05/2006 04/06/2006

CONTACT:

Susan Alaniz

			RECEIPT
FRACTION #	NAME	<u>TEST</u>	VAC./PRES.
03A	SVE Combined INF (SP301)	Modified TO-15	Tedlar Bag
04A	SVE INT (SP302)	Modified TO-15	Tedlar Bag
05A	Lab Blank	Modified TO-15	NA
06A	CCV	Modified TO-15	NA
07A	LCS	Modified TO-15	NA

CERTIFIED BY:

Lina d. Truman

04/06/06 DATE:

Laboratory Director

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP- A1 30763, NJ NELAP - CA004 NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/05, Expiration date: 06/30/06

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE Modified TO-15 SAS Environmental Workorder# 0604050A

Two 1 Liter Tedlar Bag samples were received on April 05, 2006. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

Method modifications taken to run these samples are summarized in the below table. Specific project requirements may over-ride the ATL modifications.

Requirement	TO-15	ATL Modifications
Daily CCV	+- 30% Difference	= 30% Difference with two allowed out up to </=40%.;<br flag and narrate outliers
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The reported LCS for each daily batch has been derived from more than one analytical file.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated peak.
 - Q Exceeds quality control limits.
 - U Compound analyzed for but not detected above the reporting limit.
 - UJ- Non-detected compound associated with low bias in the CCV
 - N The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified



b-File was quantified by a second column and detector r1-File was requantified for the purpose of reissue



Summary of Detected Compounds MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SVE Combined INF (SP301)

Lab 1D#: 0604050A-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
cis-1,2-Dichloroethene	220	1100	880	4500
Trichloroethene	220	44000	1200	240000



Client Sample ID: SVE Combined INF (SP301)

Lab ID#: 0604050A-03A

File Name: Dil. Factor:	f040526 444		Date of Collection: 4/4/06 Date of Analysis: 4/6/06 04:57 AM								
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)							
Freon 12	220	Not Detected	1100	Not Detected							
Freon 114	220	Not Detected	1600	Not Detected							
Chloromethane	890	Not Detected	1800	Not Detected							
Vinyl Chloride	220	Not Detected	570	Not Detected							
1,3-Butadiene	220	Not Detected	490	Not Detected							
Bromomethane	220	Not Detected	860	Not Detected							
Chloroethane	220	Not Detected	580	Not Detected							
Freon 11	220	Not Detected	1200	Not Detected							
Ethanol	890	Not Detected	1700	Not Detected							
Freon 113	220	Not Detected	1700	Not Detected							
1,1-Dichloroethene	220	Not Detected	880	Not Detected							
Acetone	890	Not Detected	2100	Not Detected							
2-Propanol	890	Not Detected	2200	Not Detected							
Carbon Disulfide	220	Not Detected	690	Not Detected							
3-Chloropropene	890	Not Detected	2800	Not Detected							
Methylene Chloride	220	Not Detected	770	Not Detected							
Methyl tert-butyl ether	220	Not Detected	800	Not Detected							
trans-1,2-Dichloroethene	220	Not Detected	880	Not Detected							
Hexane	220	Not Detected	780	Not Detected							
1,1-Dichloroethane	220	Not Detected	900	Not Detected							
2-Butanone (Methyl Ethyl Ketone)	220	Not Detected	650	Not Detected							
cis-1,2-Dichloroethene	220	1100	880	4500							
Tetrahydrofuran	220	Not Detected	650	Not Detected							
Chloroform	220	Not Detected	1100	Not Detected							
1,1,1-Trichloroethane	220	Not Detected	1200	Not Detected							
Cyclohexane	220	Not Detected	760	Not Detected							
Carbon Tetrachloride	220	Not Detected	1400	Not Detected							
2,2,4-Trimethylpentane	220	Not Detected	1000	Not Detected							
Benzene	220	Not Detected	710	Not Detected							
1,2-Dichloroethane	220	Not Detected	900	Not Detected							
Heptane	220	Not Detected	910	Not Detected							
Trichloroethene	220	44000	1200	240000							
1,2-Dichloropropane	220	Not Detected	1000	Not Detected							
1,4-Dioxane	890	Not Detected	3200	Not Detected							
Bromodichloromethane	220	Not Detected	1500	Not Detected							
cis-1,3-Dichloropropene	220	Not Detected	1000	Not Detected							
4-Methy!-2-pentanone	220	Not Detected	910	Not Detected							
Toluene	220	Not Detected	840	Not Detected							
trans-1,3-Dichtoropropene	220	Not Detected	1000	Not Detected							
1,1,2-Trichloroethane	220	Not Detected	1200	Not Detected							



Client Sample ID: SVE Combined INF (SP301)

Lab ID#: 0604050A-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name: Dil. Factor:	f040526 444		Date of Collection: 4/4/06 Date of Analysis: 4/6/06 04:57 AM								
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)							
Tetrachloroethene	220	Not Detected	1500	Not Detected							
2-Hexanone	890	Not Detected	3600	Not Detected							
Dibromochloromethane	220	Not Detected	1900	Not Detected							
1,2-Dibromoethane (EDB)	220	Not Detected	1700	Not Detected							
Chlorobenzene	220	Not Detected	1000	Not Detected							
Ethyl Benzene	220	Not Detected	960	Not Detected							
m,p-Xylene	220	Not Detected	960	Not Detected							
o-Xylene	220	Not Detected	960	Not Detected							
Styrene	220	Not Detected	940	Not Detected							
Bromoform	220	Not Detected	2300	Not Detected							
Cumene	220	Not Detected	1100	Not Detected							
1,1,2,2-Tetrachloroethane	220	Not Detected	1500	Not Detected							
Propylbenzene	220	Not Detected	1100	Not Detected							
4-Ethyltoluene	220	Not Detected	1100	Not Detected							
1,3,5-Trimethylbenzene	220	Not Detected	1100	Not Detected							
1,2,4-Trimethylbenzene	220	Not Detected	1100	Not Detected							
1,3-Dichlorobenzene	220	Not Detected	1300	Not Detected							
1,4-Dichlorobenzene	220	Not Detected	1300	Not Detected							
alpha-Chlorotoluene	220	Not Detected	1100	Not Detected							
1,2-Dichlorobenzene	220	Not Detected	1300	Not Detected							
1,2,4-Trichlorobenzene	890	Not Detected	6600	Not Detected							
Hexachlorobutadiene	890	Not Detected	9500	Not Detected							

Container Type: 1 Liter Tedlar Bag

		Method
Surrogates	%Recovery	Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	. 113	70-130
4-Bromofluorobenzene	99	70-130

AN TOSKES 180 BINE BRUNE RO SUEB

800 985 5955

ENSH

Factors (1.4 156/30 Nachalle Cavillian Phone: 515-725-8177 2960 Footer-Greighten Fact 615-725-3404 Nachalle, TN 37204

06040504 To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?

Consolance Manifestine

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